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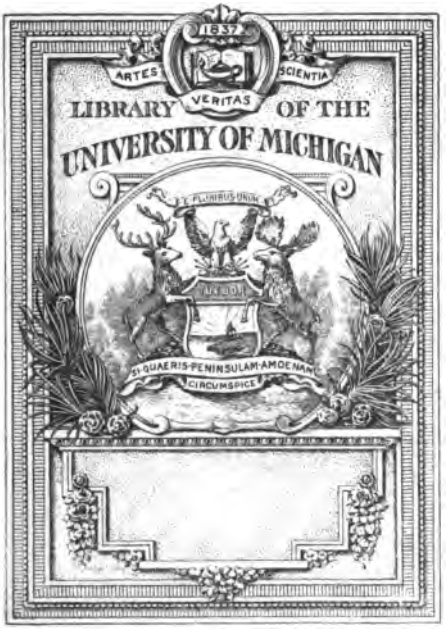
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1. **EXTRACTS FROM CALENDAR, 1898–99.**—Regulations, Courses of Study, and Courses of Examination in the several Faculties, Time Tables, and an Appendix, giving information about the various Competitive Examinations. *Price* 3*d.*

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QUEEN'S COLLEGE GALWAY.

From Photo. by W. Lawrence Dublin.

QUEEN'S COLLEGE, GALWAY.

FOUNDED A.D. MDCCCXLV.

CALENDAR

FOR

1898–99.

PUBLISHED BY AUTHORITY OF THE COUNCIL.

DUBLIN:
PRINTED AT THE UNIVERSITY PRESS,
BY PONSONBY AND WELDRICK.
1899.

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Calendar.

10TH MONTH.]	OCTOBER, 1898.	[XXXI DAYS.
1	Saturday	
2	Sunday	
3	Monday	
4	Tuesday	
5	Wednesday	
6	Thursday	
7	Friday	
8	Saturday	
9	Sunday	
10	Monday	
11	Tuesday	
12	Wednesday	New Charter, 1863.
13	Thursday	
14	Friday	
15	Saturday	
16	Sunday	
17	Monday	
18	Tuesday	College Session and First Term begin.
19	Wednesday	
20	Thursday	Examinations for Senior Scholarships, and Junior Scholarships of the Second and Third Years, begin.
21	Friday	Matriculation Examination.
22	Saturday	
23	Sunday	
24	Monday	Examinations for Junior Scholarships of the First Year begin.
25	Tuesday	
26	Wednesday	
27	Thursday	
28	Friday	
29	Saturday	
30	Sunday	College opened, 1849.
31	Monday	

11TH MONTH.]	NOVEMBER, 1898.	[XXX DAYS.
1	Tuesday	ALL SAINTS. College Holiday.
2	Wednesday	Lectures in Arts, Medicine, and Engineering begin.
3	Thursday	
4	Friday	
5	Saturday	
6	Sunday	
7	Monday	
8	Tuesday	
9	Wednesday	
10	Thursday	
11	Friday	Supplemental Matriculation Examination begins.
12	Saturday	
13	Sunday	
14	Monday	Practical Chemistry Classes begin.
15	Tuesday	
16	Wednesday	
17	Thursday	
18	Friday	
19	Saturday	
20	Sunday	
21	Monday	
22	Tuesday	
23	Wednesday	Law Lectures begin.
24	Thursday	
25	Friday	
26	Saturday	
27	Sunday	
28	Monday	
29	Tuesday	
30	Wednesday	

12TH MONTH.]	DECEMBER, 1898.	[XXXI DAYS.
1	Thursday	Examination for Blayney Exhibition begins.
2	Friday	
3	Saturday	
4	Sunday	
5	Monday	
6	Tuesday	
7	Wednesday	
8	Thursday	
9	Friday	
10	Saturday	
11	Sunday	Letters Patent appointing Professors and constituting Statutes issued, 1849.
12	Monday	
13	Tuesday	
14	Wednesday	
15	Thursday	Examinations for Junior Law Scholarships begin.
16	Friday	Lectures end.
17	Saturday	
18	Sunday	
19	Monday	
20	Tuesday	
21	Wednesday	
22	Thursday	First Term ends.
23	Friday	
24	Saturday	
25	Sunday	CHRISTMAS DAY.
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	Letters Patent Incorporating the College issued, 1845.
31	Saturday	

1st MONTH.]		JANUARY, 1899. [XXXI DAYS.
1	Sunday	
2	Monday	
3	Tuesday	
4	Wednesday	
5	Thursday	
6	Friday	Second Term begins. EPIPHANY.
7	Saturday	College Holiday.
8	Sunday	
9	Monday	Lectures in Arts, Medicine, Engineering, and Demonstrations in Practical Physics, begin.
10	Tuesday	
11	Wednesday	
12	Thursday	
13	Friday	
14	Saturday	
15	Sunday	
16	Monday	
17	Tuesday	
18	Wednesday	
19	Thursday	
20	Friday	
21	Saturday	
22	Sunday	
23	Monday	
24	Tuesday	
25	Wednesday	
26	Thursday	
27	Friday	
28	Saturday	
29	Sunday	
30	Monday	
31	Tuesday	

2ND MONTH.]	FEBRUARY, 1899.	[XXVIII DAYS.
1	Wednesday	
2	Thursday	
3	Friday	Queen's University of Ireland dissolved, 1882.
4	Saturday	
5	Sunday	
6	Monday	
7	Tuesday	
8	Wednesday	
9	Thursday	
10	Friday	
11	Saturday	
12	Sunday	
13	Monday	
14	Tuesday	SHROVE TUESDAY. College Holiday.
15	Wednesday	ASH WEDNESDAY. College Holiday.
16	Thursday	Law Lectures begin.
17	Friday	
18	Saturday	
19	Sunday	
20	Monday	
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	
26	Sunday	
27	Monday	
28	Tuesday	

3RD MONTH.]	MARCH, 1899.	[XXXI DAYS.
1	Wednesday	
2	Thursday	
3	Friday	
4	Saturday	
5	Sunday	
6	Monday	
7	Tuesday	
8	Wednesday	
9	Thursday	
10	Friday	
11	Saturday	
12	Sunday	
13	Monday	
14	Tuesday	
15	Wednesday	
16	Thursday	
17	Friday	ST. PATRICK'S DAY. College Holiday.
18	Saturday	
19	Sunday	
20	Monday	
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	Lectures end.
25	Saturday	Second Term ends. LADY DAY. College Holiday.
26	Sunday	
27	Monday	
28	Tuesday	
29	Wednesday	
30	Thursday	
31	Friday	GOOD FRIDAY.

4TH MONTH.]	APRIL, 1899.	[XXX DAYS.
1	Saturday	
2	**Sunday**	EASTER SUNDAY.
3	Monday	
4	Tuesday	
5	Wednesday	
6	Thursday	
7	Friday	
8	Saturday	
9	**Sunday**	
10	Monday	Third Term begins.
11	Tuesday	Lectures begin.
12	Wednesday	
13	Thursday	
14	Friday	
15	Saturday	
16	**Sunday**	
17	Monday	
18	Tuesday	
19	Wednesday	
20	Thursday	
21	Friday	
22	Saturday	
23	**Sunday**	
24	Monday	
25	Tuesday	
26	Wednesday	
27	Thursday	Charter of Royal University of Ireland granted, 1880.
28	Friday	
29	Saturday	Medical Session ends.
30	**Sunday**	

5TH MONTH.]	MAY, 1899.	[XXXI DAYS.
1	Monday	
2	Tuesday	
3	Wednesday	
4	Thursday	
5	Friday	
6	Saturday	
7	**Sunday**	
8	Monday	
9	Tuesday	
10	Wednesday	
11	Thursday	ASCENSION DAY. College Holiday.
12	Friday	
13	Saturday	
14	**Sunday**	
15	Monday	
16	Tuesday	
17	Wednesday	
18	Thursday	
19	Friday	
20	Saturday	Lectures end.
21	**Sunday**	
22	Monday	
23	Tuesday	
24	Wednesday	Queen Victoria *b.* 1819. College Holiday.
25	Thursday	
26	Friday	
27	Saturday	
28	**Sunday**	
29	Monday	Sessional Examinations begin.
30	Tuesday	
31	Wednesday	

6TH MONTH.]	JUNE, 1899.	[XXX DAYS.
1	Thursday	CORPUS CHRISTI. College Holiday.
2	Friday	
3	Saturday	
4	Sunday	
5	Monday	
6	Tuesday	
7	Wednesday	
8	Thursday	
9	Friday	
10	Saturday	Third Term ends. End of Session.
11	Sunday	
12	Monday	
13	Tuesday	
14	Wednesday	
15	Thursday	
16	Friday	
17	Saturday	
18	Sunday	
19	Monday	
20	Tuesday	
21	Wednesday	
22	Thursday	
23	Friday	
24	Saturday	
25	Sunday	
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	

7TH MONTH.]	JULY, 1899.	[XXXI DAYS.
1	Saturday	
2	Sunday	
3	Monday	
4	Tuesday	
5	Wednesday	
6	Thursday	
7	Friday	
8	Saturday	
9	Sunday	
10	Monday	
11	Tuesday	
12	Wednesday	
13	Thursday	
14	Friday	
15	Saturday	
16	Sunday	
17	Monday	
18	Tuesday	
19	Wednesday	
20	Thursday	
21	Friday	
22	Saturday	
23	Sunday	
24	Monday	
25	Tuesday	
26	Wednesday	
27	Thursday	
28	Friday	
29	Saturday	Colleges Act, 1845.
30	Sunday	
31	Monday	

8TH MONTH.]	AUGUST, 1899.	[XXXI DAYS.
1	Tuesday	
2	Wednesday	
3	Thursday	
4	Friday	
5	Saturday	
6	Sunday	
7	Monday	
8	Tuesday	
9	Wednesday	
10	Thursday	
11	Friday	
12	Saturday	
13	Sunday	
14	Monday	
15	Tuesday	
16	Wednesday	
17	Thursday	
18	Friday	
19	Saturday	
20	Sunday	
21	Monday	
22	Tuesday	
23	Wednesday	
24	Thursday	
25	Friday	
26	Saturday	
27	Sunday	
28	Monday	
29	Tuesday	
30	Wednesday	
31	Thursday	

7TH MONTH.]	JULY, 1899.	[XXXI DAYS.
1	Saturday	
2	Sunday	
3	Monday	
4	Tuesday	
5	Wednesday	
6	Thursday	
7	Friday	
8	Saturday	
9	Sunday	
10	Monday	
11	Tuesday	
12	Wednesday	
13	Thursday	
14	Friday	
15	Saturday	
16	Sunday	
17	Monday	
18	Tuesday	
19	Wednesday	
20	Thursday	
21	Friday	
22	Saturday	
23	Sunday	
24	Monday	
25	Tuesday	
26	Wednesday	
27	Thursday	
28	Friday	
29	Saturday	Colleges Act, 1845.
30	Sunday	
31	Monday	

8TH MONTH.]	AUGUST, 1899.	[XXXI DAYS.
1	Tuesday	
2	Wednesday	
3	Thursday	
4	Friday	
5	Saturday	
6	Sunday	
7	Monday	
8	Tuesday	
9	Wednesday	
10	Thursday	
11	Friday	
12	Saturday	
13	Sunday	
14	Monday	
15	Tuesday	
16	Wednesday	
17	Thursday	
18	Friday	
19	Saturday	
20	Sunday	
21	Monday	
22	Tuesday	
23	Wednesday	
24	Thursday	
25	Friday	
26	Saturday	
27	Sunday	
28	Monday	
29	Tuesday	
30	Wednesday	
31	Thursday	

9TH MONTH.]	SEPTEMBER, 1899.	[XXX DAYS.
1	Friday	
2	Saturday	
3	Sunday	
4	Monday	
5	Tuesday	
6	Wednesday	
7	Thursday	
8	Friday	
9	Saturday	
10	Sunday	
11	Monday	
12	Tuesday	
13	Wednesday	
14	Thursday	
15	Friday	
16	Saturday	
17	Sunday	
18	Monday	
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	
24	Sunday	
25	Monday	
26	Tuesday	
27	Wednesday	
28	Thursday	
29	Friday	
30	Saturday	

10TH MONTH.]	OCTOBER, 1899.	[XXXI DAYS.
1	Sunday	
2	Monday	
3	Tuesday	
4	Wednesday	
5	Thursday	
6	Friday	
7	Saturday	
8	Sunday	
9	Monday	
10	Tuesday	
11	Wednesday	
12	Thursday	New Charter, 1863.
13	Friday	
14	Saturday	
15	Sunday	
16	Monday	
17	Tuesday	College Session and First Term begin.
18	Wednesday	
19	Thursday	Examinations for Senior Scholarships, and Junior Scholarships of the Second and Third Years begin.
20	Friday	Matriculation Examination begins.
21	Saturday	
22	Sunday	
23	Monday	Examinations for Junior Scholarships of the First Year begin.
24	Tuesday	
25	Wednesday	
26	Thursday	
27	Friday	
28	Saturday	
29	Sunday	
30	Monday	College opened, 1849.
31	Tuesday	

11TH MONTH.]	NOVEMBER, 1899.	[XXX DAYS.
1	Wednesday	ALL SAINTS. College Holiday.
2	Thursday	Lectures in Arts, Medicine, and Engineering begin.
3	Friday	
4	Saturday	
5	Sunday	
6	Monday	
7	Tuesday	
8	Wednesday	
9	Thursday	
10	Friday	Supplemental Matriculation Examination begins.
11	Saturday	
12	Sunday	
13	Monday	Practical Chemistry Classes begin.
14	Tuesday	
15	Wednesday	
16	Thursday	
17	Friday	
18	Saturday	
19	Sunday	
20	Monday	
21	Tuesday	
22	Wednesday	
23	Thursday	Law Lectures begin.
24	Friday	
25	Saturday	
26	Sunday	
27	Monday	
28	Tuesday	
29	Wednesday	
30	Thursday	

12TH MONTH.]	DECEMBER, 1899.	[XXXI DAYS.
1	Friday	Examination for Blayney Exhibition begins.
2	Saturday	
3	Sunday	
4	Monday	
5	Tuesday	
6	Wednesday	
7	Thursday	
8	Friday	
9	Saturday	
10	Sunday	
11	Monday	Letters Patent appointing Professors and constituting Statutes issued, 1849.
12	Tuesday	
13	Wednesday	
14	Thursday	
15	Friday	Lectures end. Examinations for Junior Law Scholarships begin.
16	Saturday	
17	Sunday	
18	Monday	
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	First Term ends.
23	Saturday	
24	Sunday	
25	Monday	CHRISTMAS DAY.
26	Tuesday	
27	Wednesday	
28	Thursday	
29	Friday	
30	Saturday	Letters Patent incorporating the College issued, 1845.
31	Sunday	

QUEEN'S COLLEGE, GALWAY.

FOUNDED A.D. MDCCCXLV.

FOUNDATION AND CONSTITUTION.

THE Colleges of the Queen's University were founded under the provisions of the Act 8 and 9 Victoria, cap. 66, intituled "An Act to enable Her Majesty to endow new Colleges for the Advancement of Learning in Ireland." Under the powers given by this Act, it was determined to found three Colleges. Belfast, Cork, and Galway were selected as their sites; and on the 30th of December, 1845, Letters Patent were issued incorporating them under the name and style of "THE PRESIDENT, VICE-PRESIDENT, AND PROFESSORS OF QUEEN'S COLLEGE, [BELFAST, CORK,] GALWAY.

The Colleges were opened for Students on the 30th October, 1849. The Presidents and Vice-Presidents of the Three Colleges constituted a Board of Government till the foundation of the Queen's University in 1850. By the University Education (Ireland) Act of 1879 provision was made for the foundation of the Royal University and the dissolution of the Queen's University, within two years from the date of the Charter of the Royal University. All Graduates and Matriculated Students of the Queen's University at the time of dissolution became Graduates and Students of the Royal University, and all existing Professors of the Queen's Colleges continued to be University Professors. The Charter of the Royal University was granted on the 27th of April, 1880, and the Queen's University was dissolved on the 3rd of February, 1882.

COLLEGE BUILDINGS.

THE College, erected in 1848, is situated on the west side of the River Corrib, which divides its grounds from the town of Galway. It is built of cut limestone from the neighbourhood, in the form of a quadrangle. The style is Gothic of the 14th century. Over the principal entrance facing the town is a clock tower, 108 feet high. The private residences of the President and Registrar with the Examination Hall occupy the west side. The Library, over 130 feet in length, extends along the first floor of the north side. It contains upwards of 35,000 volumes in the various departments, to which constant additions are made of the most recent standard works. Beneath it are the Drawing school and Lecture rooms of the Engineering department, the Pharmacy Laboratory, the Mathematics and Modern Languages Lecture rooms. Corresponding to it on the south side is the Museum of Natural History, under which are the Laboratory, Museum, and Lecture rooms of Natural Philosophy. The Laboratories of Chemistry and of Practical Physiology with the Museums of Geology and Mineralogy and of Gynæcology, which are described under the departments to which they belong, and various Lecture rooms occupy the rest of the main buildings. The Anatomical School is situated in the north-west corner of the grounds. The Botanical Gardens, the cricket and footoall fields, the tennis and racquet courts are in the grounds surrounding the principal Building, as are also the Meteorological instruments, which are in charge of one of the College officers. The majority of the students reside during term in Salthill, which lies on Galway Bay, about a mile distant from the College.

SCHOLARS.

SESSION 1849-50.

Faculty of Arts.

JUNIOR SCHOLARSHIPS.

FIRST YEAR.

Literary Division.	*Science Division.*
Richardson, John H.	Duggan, Charles W.
Norton, Bernard G.	Ford, Patrick F.
M'Mahon, George Y.	Ryan, Dominick D.
M'Dermott, Dominick.	M'Grath, John.
Fynn, Peter J.	Powell, John.
Murphy, Thadeus.	Scott, Patrick.
Power, Richard.	Howze, John.
M'Mullen, James A.	O'Feely, Timothy O'B.
Kyle, Christopher.	Eames, Richard F.
O'Maher, William.	Blake, Joseph V.
Fitzgerald, Nicholas.	Evans, John.
Johnston, William.	Johnston, John.
Eaton, Richard.	Ferguson, Robert.
Hughes, Patrick J.	Tully, Joseph.
Kelly, Patrick.	Skerrett, Peter.
Gibson, John.	Duggan, Joseph.
O'Kelly, Edmond.	Walkinshaw, Robert.
Irwin, George.	King, William.
Pall, Joshua.	St. George, Henry.
Hearne, John Henry.	M'Mahon, Thomas A.
Dopping, James H.	
Hurly, Joseph.	
Scott, William A.	

School of Engineering.

FIRST YEAR.

Drysdale, Charles. | Gardiner, Martin.

School of Agriculture.

FIRST YEAR.

Skilling, Thomas. | O'Hara, Thomas.

SESSION 1850-51.

Faculty of Arts.

SECOND YEAR.

Literary Division.	*Science Division.*
Richardson, John H.	Scott, Patrick.
M'Dermott, Dominick.	Powell, John.
Kyle, Christopher.	Ryan, Dominick D.
M'Mahon, George.	Duggan, Charles W.
Murphy, Thadeus.	Howze, John.
Johnston, William.	Duggan, Joseph.
Irwin, George.	Johnston, John.
Hughes, Patrick J.	Evans, John.
	O'Feely, Timothy O'B.
	King, William.
	Walkinshaw, Robert.
	Fynn, Peter J.

FIRST YEAR.

Literary Division.		*Science Division.*
M'Gowan, Robert.		Warrell, James.
Smith, J Anderson.		Stephens, Robert.
M'Grath, Thomas.		Moorhead, John.
Montgomery, James.	*equal.*	Jackson, Burton.
Mitchell, Robert J.	*equal.*	Comyns, William.
Berwick, John.		Hurly, Joseph.
Browne, William A.		Roach, Edward.
Kilkelly, Garrett H.		Slater, James.
Perrin, Patrick.		Gardiner, Martin.
Lalor, James.		O'Doherty, John.
		Gilmore, Charles.

Faculty of Law.

SECOND YEAR.

Ryan, Dominick D.

FIRST YEAR.

Keane, C. Marcet.

Faculty of Medicine.

SECOND YEAR.

Eaton, Richard.	O'Leary, John.

FIRST YEAR.

Skerratt, Peter.	Kelly, Patrick J.

School of Engineering.

SECOND YEAR.

Drysdale, Charles.

FIRST YEAR.

Eames, Richard F.

School of Agriculture.

SECOND YEAR.

Skilling, Thomas. | O'Hara, Thomas.

FIRST YEAR.

O'Hara, Charles. | Comyns, Patrick J.

SESSION 1851-52.

Faculty of Arts.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Richardson, John H.	Duggan, Charles.
Johnston, William.	Scott, Patrick.
Murphy, Thadeus.	Evans, John.
	Howze, John.
	Walkinshaw, Robert.
	King, William.
	Duggan, Joseph.

SECOND YEAR.

Literary Division.	*Science Division.*
Mitchell, Robert J.	Ford, Patrick F.
Browne, William A.	Breen, Michael.
Berwick, John.	Maguire, Edward.
Smith, J. Anderson.	Roach, Edward.
Hughes, Patrick J.	
Mahony, John.	
Fynn, Peter J.	
Kilkelly, Garrett.	

FIRST YEAR.

Literary Division.		*Science Division.*	
Moffett, James.		M'Shane, John.	
Fleming, William.		Kearney, Daniel.	*equal.*
Dunlop, Charles.		Johnson, J. Wesley.	
Hurley, Francis B.		Colahan, John.	*equal.*
Jackson, Burton.	*equal.*	Atkinson, Samuel.	
Hooper, Charles J.			
Arthur, John.			
Ireland, Arthur J.			

Faculty of Law.

THIRD YEAR.

Ryan, Dominick D.

SECOND YEAR.

Keane, C. Marcest.

FIRST YEAR.

Stephens, Robert.

Faculty of Medicine.

THIRD YEAR.

Eaton, Richard. | O'Leary, John.

SECOND YEAR.

Kelly, Patrick J. | Skerrett, Peter.

FIRST YEAR.

Joynt, Christopher. | Moorhead, John.

School of Engineering.

SECOND YEAR.

Powell, John.

FIRST YEAR.

O'Doherty, John.

School of Agriculture.

SECOND YEAR.

O'Hara, Charles.

FIRST YEAR.

Short, William. | M'Grath, John.

SESSION 1852-53.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Richardson, John, B.A.
Metaphysical and Economic Science, ..	Johnston, William, B.A.
Natural History, ...	Duggan, Charles, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Hughes, Patrick J.	M'Dermott, Dominick.
Mitchell, Robert J.	Smith, John A.
Browne, William A.	Powell, John.
Berwick, John.	Ford, Patrick F.
Mahony, John.	Roach, Edward.

SECOND YEAR.

Literary Division.	*Science Division*
Jackson, Burton.	Maguire, Edward.
Hooper, Charles J.	Kearney, Daniel.
Hurley, Francis B.	Atkinson, Samuel.
Johnson, John W.	Colahan, John.
Clarke, William.	

FIRST YEAR.

Literary Division.	*Science Division.*
* West, Raymond.	* West, Raymond.
Treanor, W. Stanley.	Breen, Daniel.
Charters, William. } *equal.*	Gilmore, Stewart.
Arnold, Pierce. } *equal.*	Stephens, Samuel.
Davys, Frank.	Dillon, Gerald.

Faculty of Law.

SENIOR SCHOLARSHIPS.

Ryan, Dominick D., B.A.

THIRD YEAR.

Keane, C. Marcest.

SECOND YEAR.

O'Feely, Timothy O'B.

FIRST YEAR.

Walkinshaw, Robert.

* Having obtained *First* place in both divisions, retains both Scholarships.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Therapeutics and Pathology, ... O'Leary, John.

THIRD YEAR.

Blake, James V. | Kelly, Patrick.

SECOND YEAR.

Moorehead, John. | Joynt, Christopher.

FIRST YEAR.

*West, Raymond.
Crinnian, P. | Ireland, Arthur J.

School of Engineering.

SECOND YEAR.

Breen, John.

FIRST YEAR.

Howze, John.

School of Agriculture.

SECOND YEAR.

M'Grath, John. | Hardiman, James.

FIRST YEAR

M'Donagh, William. | M'Mahon, Thomas.

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* Resigned.

SESSION 1853-54.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Dowling, Jeremiah J., B.A.
Modern Languages and Modern History,	Hughes, Patrick J., B.A.
Metaphysical and Economic Science, ..	Browne, William A., B.A.
Natural History, ...	M'Dermott, Dominick, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.		*Science Division.*
† Charters, William.		Maguire, Edward.
Clarke, William.	*equal.*	Hurley, Francis B.
Hooper, Charles J.		Colahan, John.
Johnston, John W.		Kearney, Daniel.
Jackson, Burton.		Atkinson, Samuel.

SECOND YEAR.

Literary Division.	*Science Division.*
*West, Raymond.	*West, Raymond.
Treanor, W. Stanley.	Tierney, Daniel.
Fleming, William.	Dillon, Gerald.
Arnold, Pierce.	Stephens, Samuel.
Davys, Frank.	Short, William.

FIRST YEAR.

Literary Division.		*Science Division.*
Thomson, Alfred B.		Adair, James J.
Coffie, Edward.	*equal.*	Dowman, William.
Henry, John W. R.		Gormley, John.
Stirke, Julius W.		Watts, Walter A.
Conolly, James.		Breen, John.

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* Having obtained *First* place in both divisions, retains both Scholarships.

† According to Minute of Council.

Faculty of Law.

SENIOR SCHOLARSHIP.

Keane, C. Marcoet, B.A.

THIRD YEAR.

Stephens, Robert.

SECOND YEAR.

Mason, William.

FIRST YEAR.

Perrin, Patrick.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, ... Blake, Joseph V
Therapeutics and Pathology, ... Kelly, Patrick J.

THIRD YEAR.

Moorhead, John. | Joynt, Christopher.

SECOND YEAR.

Ireland, Arthur J. | Purcell, Patrick J.

FIRST YEAR.

Mahony, John.

School of Engineering.

SECOND YEAR.

M'Donagh, William.

FIRST YEAR.

Meharg, William.

School of Agriculture.

SECOND YEAR.

M'Donagh, William.

FIRST YEAR.

Carrick, Daniel. | O'Leary, Arthur.

SESSION 1854-55.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Mahony, John, B.A.
Mathematics, ...	Ford, Patrick F., B.A.
Natural Philosophy, ...	Maguire, Edward, B.A.
Metaphysical and Economic Science, ..	Kearney, Daniel, B.A.
Chemistry, ...	M'Dermott, Domk., B.A.
Natural History, ...	Parker, James D., B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
*West, Raymond.	*West, Raymond.
Arnold, Pierce.	Tierney, Daniel.
Treanor, W. Stanley.	
Davys, Frank.	

SECOND YEAR.

Literary Division.	*Science Division.*
Henry, John W. R.	Gormley, John.
Conolly, James.	Watts, Walter A.
	Dowman, William.
	O'Hara, Thomas.

FIRST YEAR.

Literary Division.	*Science Division.*
Lane, George.	Moore, John H.
Hooper, Robert.	Bateman, Richard C.
Monroe, John.	Bruen, Patrick.
Reddan, John.	Ross, Cornelius P.
Stewart, Robert F.	Thane, Charles H.

Faculty of Law.

THIRD YEAR.

Mason, William.

SECOND YEAR.

Perrin, Patrick.

FIRST YEAR.

Hooper, Charles J.

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* Having obtained *First* place in both divisions, retains both Scholarships.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Therapeutics and Pathology, ... Duggan, Joseph.

SECOND YEAR.

Colahan, John. | Crean, Martin J.

FIRST YEAR.

Hurley, Francis B. | O'Brien, James.

School of Engineering.

SECOND YEAR.

O'Kinealy, Michael.

FIRST YEAR.

O'Kinealy, James.

School of Agriculture.

SECOND YEAR.

Carrick, Daniel. | Keane, John E.

FIRST YEAR.

Gouldaberry, V. Skipton. | Wall, Walter S.

SESSION 1855-56.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	West, Raymond, B.A.
Modern Languages and Modern History, ..	Mahony, John, B.A.
Natural Philosophy, ...	Ford, Patrick F., B.A.
Metaphysical and Economic Science, ..	Hooper, Charles J., B.A.
Chemistry, ...	Maguire, Edward, B.A.
Natural History, ...	Moorhead, John, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Conolly, James.	Watts, Walter A.
Henry, John W. R.	Gormley, John.
	O'Hara, Thomas.
	Breen, John.

SECOND YEAR.

Literary Division.	*Science Division.*
Monroe, John.	Thane, Charles H.
Treanor, Arthur.	Adair, James J.
Bateman, Richard C.	Burke, Martin J.
West, John D.	Moore, John H.
Stewart, Robert F.	

FIRST YEAR.

Literary Division.	*Science Division.*
Hunter, John.	Thynne, Henry.
Stewart, Washington S.	O'Kinealy, James.
Evatt, Humphrey.	Quinn, Martin.
Hart, James C.	O'Neill, George F.
	Grealy, John.

Faculty of Law.

THIRD YEAR.

O'Feely, Timothy O'B.

FIRST YEAR.

Arnold, Pierce.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Therapeutics and Pathology, ... Morris, Michael O'K., B.A

THIRD YEAR.

Colahan, John. | Crean, Martin J.

SECOND YEAR.

Hurley, Francis B. | O'Flaherty, Thomas A.

FIRST YEAR.

Sigerson, George. | M'Bride, John B.

School of Engineering.

SECOND YEAR.

Quinn, Michael.

FIRST YEAR.

Weir, John.

School of Agriculture.

SECOND YEAR.

Gouldsberry, V. Skipton. | O'Donohoe, Patrick.

FIRST YEAR.

Bradshaw, George B. | Killery, Henry.

SESSION 1856–57.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, &c., ...	Arnold, Pierce, B.A.
Mathematics, ...	Maguire, Edward, B.A.
Metaphysical and Economic Science, ..	O'Feely, Timothy O'B., B.A.
Chemistry, ...	Watts, Walter A., B.A.
Natural History, ...	Mahony, John, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Monroe, John.	Adair, James J.
Bateman, Richard C.	Moore, John H.
Stewart, Robert F.	Greene, Joseph R.
West, John D.	Burke, Martin J.

SECOND YEAR.

Literary Division.	*Science Division.*
O'Neill, George F.	Thynne, Henry. } *equal.*
Hunter, John H.	O'Kinealy, James. }
Hart, James C.	Grealy, John.
	Quinn, Martin.

FIRST YEAR.

Literary Division.	*Science Division.*
Lawson, Charles H. (*Also a prize of* £10.)	Reed, Andrew A.
M'Mahon, William.	Weir, John.
*Martin, William T. } *equal.*	Martin, William T.
Martin, William. }	May, William G.
O'Brien, Julius.	*Lawson, Charles H.
Lynam, James.	O'Hara, Charles.

Faculty of Law.

SENIOR SCHOLARSHIP.

Parker, James D., B.A.

THIRD YEAR.

Perrin, Patrick.

FIRST YEAR.

*Lawson, Charles H.	O'Hara, Thomas.

* Ineligible, having obtained Scholarship in other division.

Faculty of Medicine.

SENIOR SCHOLARSHIPS.

Anatomy and Physiology, ... Reid, Robert, B.A.
Therapeutics and Pathology, ... Colahan, John.

THIRD YEAR.

O'Flaherty, Thomas A. | Killery, St. John.

SECOND YEAR.

Burke, John P. | Bournes, William H.

FIRST YEAR.

Literary Division.	*Science Division.*
Lane, George.	Gormley, John.

School of Engineering.

SECOND YEAR.

Blake, Martin P.

FIRST YEAR.

Cullen, Alexander.

School of Agriculture.

SECOND YEAR.

Bradshaw, George B. | King, Nicholson.

FIRST YEAR.

Bligh, John. | Clarke, Denis.

SESSION 1857–58.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, &c., ...	Monroe, John, B.A.
Modern Languages and Modern History,	Arnold, Pierce, B.A.
Mathematics, ...	Tierney, Daniel, B.A.
Natural Philosophy, ...	Bateman, Richard C., B.A.
Metaphysical and Economic Science, ..	M'Mahon, George Y., B.A.
Chemistry, ...	Hurley, Francis B., B.A.
Natural History, ...	Maguire, Edward, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
O'Neill, George F.	O'Kinealy, James.
Hart, James C.	Thynne, Henry.
	Quinn, Martin.

SECOND YEAR.

Literary Division.	*Science Division.*
Stewart, Washington S.	Reed, Andrew A.
Martin, William T.	May, William G.
Lynch, Martin.	Griffith, William.
Lynam, James.	Weir, John.
Conolly, Patrick W.	

FIRST YEAR.

Literary Division.	*Science Division.*
Nicoll, Robert.	Cunningham, William.
M'Auliffe, Michael.	Murray, John.
Hopkins, Jacob B.	Davison, William.
Potter, Robert.	Burdge, William E.
Smith, Robert J.	O'Farrell, William.

Faculty of Law.

SENIOR SCHOLARSHIP.

O'Feely, Timothy O'B., B.A.

SECOND YEAR.
Madill, Thomas.

FIRST YEAR.
West, John D.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Therapeutics and Pathology .. .. O'Flaherty, Thomas A.

THIRD YEAR.

Burke, John P. | Burke, Martin J.

SECOND YEAR.

Hooper, Robert. | Divers, Edward.

FIRST YEAR.

Literary Division. | *Science Division.*
M'Mahon, William. | Moore, John H.

School of Engineering.

SECOND YEAR.

Connolly, Michael.

FIRST YEAR.

Mac Farlane, Alexander.

School of Agriculture.

SECOND YEAR.

Bligh, John. | Clarke, Denis.

FIRST YEAR.

Rorke, Patrick. | Burke, John R.

SESSION 1858-59.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, &c., ...	Mitchell, Robert J., B.A.
Modern Languages and Modern History,	O'Neill, George F., B.A.
Mathematics, ...	O'Kinealy, James, B.A.
Natural Philosophy, ...	Moore, John H., B.A.
Metaphysical and Economic Science, ..	Monroe, John, B.A.
Chemistry, ...	Breen, Michael, B.A.
Natural History, ...	Bateman, Richard C., B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Norton, Bernard G.	Reed, Andrew A.
Conolly, Patrick W.	May, William G.
Martin, William T.	Griffith, William.
	Evatt, Humphrey.
	Grealy, John.

SECOND YEAR.

Literary Division.	*Science Division.*
M'Auliffe, Michael.	Davison, Thomas.
O'Brien, Julius.	Ireland, Edward.
Smith, Robert J.	O'Farrell, William.
	O'Hara, Charles.

FIRST YEAR.

Literary Division.	*Science Division.*
* Wilson, Thomas N.	* Wilson, Thomas N.
Greer, James R.	† Blood, Bindon.
Blood, Bindon.	Dowman, Charles.
Greer, John H.	Atkinson, John.
Madill, Thomas.	† Greer, James R.
	M'Dermott, Brian. } *equal.*
	O'Farrell, Thomas. }

* Having obtained *First* place in both divisions, retains both Scholarships.

† Ineligible, having obtained Scholarship in other division.

Faculty of Law.

SENIOR SCHOLARSHIP.

Hooper, Charles J., B.A.

SECOND YEAR.

West, John D.

FIRST YEAR.

M'Kane, John. | Monroe, John.

Faculty of Medicine.

SENIOR SCHOLARSHIPS.

Anatomy and Physiology, ... Maguire, Edward, B.A.
Therapeutics and Pathology, ... Burke, Martin J., B.A.

THIRD YEAR.

Climo, William H. | Hooper, Robert.

SECOND YEAR.

M'Mahon, William. | Davis, John N.

FIRST YEAR.

Literary Division.	*Science Division.*
M'Kane, John.	White, Thomas R.
M'Cracken, Thomas.	

School of Engineering.

SECOND YEAR.

Thynne, Henry.

FIRST YEAR.

Galwey, Charles.

School of Agriculture.

SECOND YEAR.

Bright, William A.

FIRST YEAR.

Mullins, John. | Rentoul, James.

SESSION 1859-60.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, &c., ...	M'Mahon, George Y., B.A.
Modern Languages and Modern History,	Mitchell, Robert J., B.A.
Natural Philosophy, ...	Thynne, Henry, B.A.
Metaphysical and Economic Science,	O'Neill, George F., B.A.
Chemistry, ...	O'Kinealy, James, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
M'Auliffe, Michael.	O'Hara, Charles.
	Davison, Thomas.
	Ireland, Edward.

SECOND YEAR.

Literary Division.	*Science Division.*
* Wilson, Thomas N.	* Wilson, Thomas N.
Cunningham, William.	Atkinson, John. } *equal.*
Crotty, Richard D.	Dowman, Charles. }
Madill, Thomas.	M'Dermott, Brian.
Smith, Washington.	Reid, William J.

FIRST YEAR.

Literary Division.	*Science Division.*
Hurley, Patrick. } *equal.*	Burke, Michael J.
O'Connor, John. }	King, Ælian A.
Saunderson, James E.	Stokes, George.
Mills, Samuel.	Falkiner, Richard D. } *equal.*
Madden, Henry M.	M'Enery, Edward. }

Faculty of Law.

JUNIOR SCHOLARSHIPS.

SECOND YEAR.

Monroe, John, B.A.

FIRST YEAR.

Louden, John J.

---

* Having obtained *First* place in both divisions, retains both Scholarships.

Faculty of Medicine.

SENIOR SCHOLARSHIPS.

Anatomy and Physiology, ... Climo, William H.
Therapeutics and Pathology, ... Divers, Edward.

THIRD YEAR.

Davis, John N. | Evans, Charles.

SECOND YEAR.

White, Thomas R. | Potter, Robert.

FIRST YEAR.

Literary Division. | *Science Division.*
Connolly, Patrick. | Howse, John.

School of Engineering.

SECOND YEAR.

Waller, Edmund W.

FIRST YEAR.

Grealy, John.

School of Agriculture.

SECOND YEAR.

Killery, Henry. | Mullins, John.

FIRST YEAR.

Greaven, Dominick. | Burke, Edward.

SESSION 1860-61.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, &c., ...	M'Auliffe, Michael, B.A.
Modern Languages and Modern History,	Conolly, James, B.A.
Mathematics, ...	Thynne, Henry, B.A.
Natural Philosophy, ...	O'Kinealy, James, B.A.
Metaphysical and Economic Science, ..	O'Hara, Thomas, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Cunningham, William.	Atkinson, John.
Wilson, Thomas N.	O'Farrell, Thomas.
Crotty, Richard D.	Reid, William J.
Madill, Thomas.	Johnson, John.
Smith, Washington.	

SECOND YEAR.

Literary Division.	*Science Division.*
Greene, Joseph J.	King, Ælian A.
Leary, Joseph W.	* Leary, Joseph W.
Hurley, Patrick.	Burke, Michael J.
Mills, Samuel.	
Saunderson, James E.	
M'Kenzie, John.	

FIRST YEAR.

Literary Division.	*Science Division.*
Sharkey, Edmund de la Garde	Saunderson, William H.
Feeny, Dominick.	Young, Robert.
† Mac Donnell, Anthony P.	Griffin, John.
Crooks, William.	Callaghan, Patrick
Padin, Thomas.	Daly, William.

Faculty of Law.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Monroe, John.

SECOND YEAR.

Louden, John J.

FIRST YEAR.

Costigan, Thomas J.

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* Ineligible, having obtained Scholarship in other division.

† Mr. Mac Donnell was awarded an Exhibition in the Medical Faculty in lieu of this Scholarship.

Faculty of Medicine.

SENIOR SCHOLARSHIPS.

Anatomy and Physiology, ... Davis, John N.
Therapeutics and Pathology, ... Gouldsberry, V. Skipton.

THIRD YEAR.

Comerford, Michael. | Potter, Robert.

SECOND YEAR.

King, Charles E. | Hughes, John H.

FIRST YEAR.

Literary Division.	*Science Division.*
Hanrahan, James J.	Bligh, John.

School of Engineering.

SECOND YEAR.

Falkiner, Richard D.

FIRST YEAR.

Stoney, Edward W.

School of Agriculture.

FIRST YEAR.

O'Flynn, John T. | Kearney, Ambrose.

SESSION 1861-62.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Wilson, Thomas N., B.A.
Modern Languages and Modern History,	Conolly, Patrick. / M'Auliffe, Michael. } *equal.*
Mathematics, ...	Atkinson, John, B.A.
Natural Philosophy, ...	O'Hara, Charles, B.A.
Metaphysical and Economic Science,	Cunningham, William, B.A.
Chemistry, ...	Reid, William J., B.A.
Natural History, ...	O'Farrell, Thomas, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Leary, Joseph W.	Leary, Joseph W.
Greene, Joseph J.	King, Ælian A.
Hurley, Patrick.	
Mills, Samuel.	
Saunderson, James.	

SECOND YEAR.

Literary Division.	*Science Division.*
Sharkey, Edmund de la Grade	Griffin, John.
Hare, Gustavus J. C.	Saunderson, William H.
Mulholland, William.	Daly, William.
Feeny, Dominick.	Moody, Samuel.
Padin, Thomas.	M'Enery, Edward.

FIRST YEAR.

Literary Division.	*Science Division.*
Wood, John E.	Foreman, Robert L.
Smylie, Archibald.	Winder, James.
Mac Donnell, Anthony P.	Thompson, George.
Thynne, Andrew.	Burke, John.
Droughton, Edward.	Dooley, Michael S.

Faculty of Law.

SENIOR SCHOLARSHIP.

Monroe, John, M.A.

THIRD YEAR.

Louden, John J.

SECOND YEAR.

Costigan, Thomas J.

FIRST YEAR.

M'Dermott, Brian.

Faculty of Medicine.

SENIOR SCHOLARSHIPS.

Anatomy and Physiology, ... White, Thomas R. (£40).
Therapeutics and Pathology, ... Davis, John N.

THIRD YEAR.

M'Mahon, William. | Dickenson, Frederick F.

SECOND YEAR.

Bligh, John. | Lightbody, William H.

FIRST YEAR.

Literary Division. | *Science Division.*
Lynch, Martin. | Thomson, William.

School of Engineering.

SECOND YEAR.

Stoney, Edward W.

FIRST YEAR.

Stanley, Alexander.

School of Agriculture.

FIRST YEAR.

Corbett, Thomas. | Nally, William.

SESSION 1862–63.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Conolly, James, B.A.
Modern Languages and Modern History,	Conolly, Patrick W., B.A.
Mathematics, ...	King, Ælian A., B.A.
Natural Philosophy, ...	Atkinson, John, B.A.
Metaphysical and Economic Science, ..	Wilson, Thomas N., B.A.
Chemistry,..	O'Farrell, Thomas, B.A.

THIRD YEAR.

Literary Division.	*Science Division.*
Hare, Gustavus J. C.	Griffin, John.
Mulholland, William.	Saunderson, William H.
Feeny, Dominick.	Moody, Samuel.
Crooks, William.	
M'Kenzie, John.	

SECOND YEAR.

Literary Division.	*Science Division.*
Wood, John E.	Foreman, Robert L.
Mac Donnell, Anthony P.	*Wallace, John.
Smylie, Archibald.	Burke, John.
Wallace, John.	Winder, James.
Droughton, Edward.	Dooley, Michael S. } *equal.*
	Thompson, George. }

FIRST YEAR.

Literary Division.	*Science Division.*
Wilson, William N.	Deane, Henry.
M'Farlane, Robert A.	Moorhead, William R.
Persse, William D.	Gaynor, William. } *equal.*
Killen, John M.	Gibbons, Thomas. }
Torrens, James.	Greaven, Dominick.

Faculty of Law.

THIRD YEAR.

Costigan, Thomas J.

SECOND YEAR.

M'Dermott, Brian.

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* Ineligible, having obtained Scholarship in other divison.

Faculty of Medicine.

SENIOR SCHOLARSHIPS.

Anatomy and Physiology, ... Hinds, William R. G.
Therapeutics and Pathology, ... Dwyer, Peter J.

THIRD YEAR.

Comerford, Henry. | Hanrahan, James J.

SECOND YEAR.

Saunderson, James E. | Thomson, William.

FIRST YEAR.

Literary Division.	*Science Division.*
Baldwin, H.	Smith, William A.

School of Engineering.

SECOND YEAR.

Stanley, Alexander.

FIRST YEAR.

Odling, Charles W.

School of Agriculture.

FIRST YEAR.

Chambers, Thomas. | Boyd, John S.

SESSION 1863-64.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Sharkey, Edmund de la Garde, B.A.
Modern Languages and Modern History,	King, Ælian A., B.A.
Mathematics, ...	Griffin, John, B.A.
Natural Philosophy, ...	Saunderson, William H., B.A.
Metaphysical and Economic Science, ..	Mulholland, William, B.A.
Chemistry, ...	O'Hara, Charles, B.A.
Natural History, ...	Chestnut, Joseph W., B.A.

THIRD YEAR.

Literary Division.	*Science Division.*
Mac Donnell, Anthony P.	Foreman, Robert L.
Wood, John E.	Daly, William.
Maybin, William.	Dooley, James.
Droughton, Edward.	Dooley, Michael S.
Smylie, Archibald.	Thompson, George.

SECOND YEAR.

Literary Division.	*Science Division.*
M'Farlane, Robert A. } *equal.*	Deane, Henry. } *equal.*
Wilson, William N. }	Moorhead, William R. }
Persse, William D.	Forsyth, Samuel M'C.
Mac Donald, Francis.	Greaven, Dominick.
Meharry, John B.	Grealy, Nicholas.

FIRST YEAR.

Literary Division.	*Science Division.*
M'Swinney, Robert F.	Walsh, Thomas.
Legate, George W.	Hughes, William.
Macaulay, Colman P.	Hoctor, William F.
O'Connor, Thomas P.	Griffin, Thomas.
Gillespie, Michael.	Brooke, John.

Faculty of Law.

THIRD YEAR.

Atkinson, John, B.A.

FIRST YEAR.

Atkinson, Nicholas.

Faculty of Medicine.

FOURTH YEAR.

Anatomy and Physiology, ... Comerford, Henry (£25).
Therapeutics and Pathology, ... Wilson, William J. (£25).
Therapeutics (*Special Exhibition*), .. Lupton, Henry (£18).

THIRD YEAR.

Bligh, John. | Conway, John K.

SECOND YEAR.

Boyd, John S. | Gorham, Anthony.

FIRST YEAR.

Literary Division.	*Science Division.*
Holmes, Robert A. K.	Walsh, Anthony.

School of Engineering.

THIRD YEAR.

M'Kelvey, Thomas.

SECOND YEAR.

Odling, Charles W. | Potter, Michael.

FIRST YEAR.

Lynam, William P. | Walker, Richard.

SESSION 1864-65.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Dick, James, B.A.	
Modern Languages and Modern History, ...	MacDonnell, Anthony P., B.A. Sharkey, Edmund de la Garde, B.A.	*æqual.*
Natural Philosophy, ...	Griffin, John, B.A.	
Metaphysical and Economic Science,	Conolly, Patrick W., B.A.	
Chemistry, ...	Conolly, James, B.A.	
Natural History, ...	Wood, John E., B.A.	

THIRD YEAR.

Literary Division.	*Science Division.*
Wilson, William N.	Winder, James.
M'Donald, Francis.	Burke, John.
Persse, William D.	Deane, Henry.
Meharry, John B.	Forsyth, Samuel M'C.
M'Farlane, Robert A.	Moorhead, William R.

SECOND YEAR.

Literary Division.	*Science Division.*
Moffett, Samuel.	Brooke, John.
M'Swinney, Robert F.	Hughes, William.
Killen, John M.	Griffin, Thomas.
Clancy, John J.	Lough, William J.
Dickey, Conly.	Walsh, Thomas.

FIRST YEAR.

Literary Division.	*Science Division.*
* Ward, Peter.	* Ward, Peter.
Maguire, Thomas M.	Brooke, William.
	Matthews, William.
	Ievers, Henry.
	Walsh, Michael.
	Colahan, William H. W

Faculty of Law.

SENIOR SCHOLARSHIP.

Atkinson, John, B.A.

THIRD YEAR.

Mulholland, William.

SECOND YEAR.

Atkinson, Nicholas.

FIRST YEAR.

Crooks, William.

* Having obtained *First* place in both divisions, retains both Scholarships.

Faculty of Medicine.

FOURTH YEAR.

Bligh, John. | Saunderson, James E.

THIRD YEAR.

Burke, Michael J. | Gorham Anthony.

SECOND YEAR.

Sharpe, William. | Warde, Michael.

FIRST YEAR.

Literary Division.

Reed, Matthew. | Cleary, Michael J.

School of Engineering.

THIRD YEAR.

Odling, Charles W.

SECOND YEAR.

Lynham, William P.

FIRST YEAR.

Davy, Alfred. | Taaffe, Michael.

SESSION 1865-66.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Wilson, William N., B.A.
Modern Languages and Modern History,	Sharkey, Edmund de la Garde, B.A.
Mathematics, ...	Deane, Henry, B.A.
Natural Philosophy, ...	Foreman, Robert L., B.A.
Metaphysical and Economic Science, ..	Moorhead, William R., B.A.
Chemistry, ...	Forsyth, Samuel M'C., B.A.
Natural History, ...	Wilson, John, B.A.

THIRD YEAR.

Literary Division.	*Science Division.*
Moffett, Samuel.	Brooke, John.
M'Swinney, Robert F.	Hughes, William.
Killen, John M.	Griffin, Thomas.
Clancy, John J.	Lough, William.
Dickey, Conly.	Walsh, Thomas.

SECOND YEAR.

Literary Division.	*Science Division.*
Macaulay, Colman P.	Brooke, William.
Maguire, Thomas M.	Colahan, William H. W.
Gillespie, Michael.	Walsh, Michael.
Marshall, John.	Ward, Peter.
	Gaynor, William.

FIRST YEAR.

Literary Division.	*Science Division.*
M'Donald, Charles.	M'Ilveen, John.
Fitzpatrick, John.	Smith, Oliver.
Dooley, John L.	M'Kenna, Thomas.
Howley, James.	Colahan, Nicholas W.
Talbot, Bertram H.	Lewis, W. Llewellyn.

Faculty of Law.

SENIOR SCHOLARSHIP.

Mulholland, William, B.A.

THIRD YEAR.

Atkinson, Nicholas.

SECOND YEAR.

[None.]

FIRST YEAR.

M'Donald, Francis, B.A.

Faculty of Medicine.

FOURTH YEAR.

Conway, John K. | Conolly, James.

THIRD YEAR.

Davy, Francis A. | Sharpe, William.

SECOND YEAR.

Saunderson, William H. | Sugars, John C.

FIRST YEAR.

Literary Division.	*Science Division.*
Murphy, Michael E.	Hegarty, John.

School of Engineering.

THIRD YEAR.

Lynam, William P.

SECOND YEAR.

Davy, Alfred. | Grealy, Nicholas.

FIRST YEAR.

Nightingale, Walter H. | Chaster, Walter T.

SESSION 1866-67.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	M'Swinney, Robert F., B.A.
Modern Languages and Modern History,	O'Connor, Thomas P., B.A.
Mathematics, ...	Foreman, Robert L., B.A.
Natural Philosophy, ...	Hughes, William, B.A.
Metaphysical and Economic Science,	M'Donald, Francis, B.A.
Chemistry, ...	Hoctor, William F., B.A.

THIRD YEAR.

Literary Division.	*Science Division.*
Macaulay, Colman P.	Brooke, William.
Maguire, Thomas M.	Colahan, William H. W.
Gillespie, Michael.	Walsh, Michael.
Marshall, John.	Ward, Peter.
Agnew, Samuel.	Gaynor, William.

SECOND YEAR.

Literary Division.		*Science Division.*
Fitzpatrick, John.	*equal.*	Smith, Oliver.
M'Donald, Charles.		Colahan, Nicholas W.
Howley, James.		Fahy, Edward.
Craig, Samuel R.		M'Ilveen, John.
Dooley, John L.		Eaton, Thomas.

FIRST YEAR.

Literary Division.	*Science Division.*
Drummond, Michael.	Drury, H. D'Olier.
Henry, William E.	Glover, Ralph F. *equal.*
Mitchell, Robert.	M'Kinney, Samuel B. G. *equal.*
Ievers, Robert W.	Nealon, William.
Drury, Richard J.	Duncan, James.

Faculty of Law.

FIRST YEAR.

M'Farlane, Robert A.

Faculty of Medicine.

FOURTH YEAR.

Kearney, Ambrose. | Clayton, Nicholas.

THIRD YEAR.

Saunderson, William H. | Sugars, John C.

SECOND YEAR.

M'Donnell, James O'M. | O'Brien, Daniel.

FIRST YEAR.

Literary Division. | *Science Division.*

Pye, Joseph P. | M'Swinney, George H.

School of Engineering.

THIRD YEAR.

M'Kinney, Hugh G.

SECOND YEAR.

Nightingale, Walter H. | Oram, John E.

FIRST YEAR.

Concannon, Patrick. | Glover, R. Stephen.

SESSION 1867-68.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Marshall, John, B.A.
Modern Languages and Modern History,	M'Donald, Francis, B.A.
Natural Philosophy, ...	Brooke, William, B.A.
Metaphysical and Economic Science, ..	M'Farlane, Robert A.
Chemistry, ...	Walsh, Michael, B.A.
Natural History, ...	Gillespie, Michael, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Fitzpatrick, John.	Colahan, Nicholas W.
M'Donald, Charles.	Fahy, Edward.
Howley, James.	M'Ilveen, John.
Craig, Samuel R.	Eaton, Thomas.
Dooley, John L.	Huey, John.

SECOND YEAR.

Literary Division.	*Science Division.*
Drummond, Michael.	Drury, H. D'Olier.
Henry, William E.	Glover, Ralph F.
Ievers, Robert W.	M'Kinney, Samuel B. G.
Drury, Richard J.	Lewis, W. Llewellyn.
Talbot, Bertram H.	Matthews, William.

FIRST YEAR.

Literary Division.	*Science Division.*
Thompson, David.	Harrison, John H.
Hart, Raphael.	Moran, John.
Foreman, William J.	* Clarke, John J.
Clarke, John J.	* Thompson, David.
	Patterson, William.
	O'Connor, P. Fenelon.

Faculty of Law.

THIRD YEAR.

M'Donald, Francis, B.A.

SECOND YEAR.

M'Swinney, Robert F., B.A.

FIRST YEAR.

Maguire, Thomas M., B.A.

* Ineligible, having obtained Scholarship in other division.

Faculty of Medicine.

FOURTH YEAR.

Saunderson, William H. | M'Auliffe, Thomas B.

THIRD YEAR.

M'Donnell, James O'M. | O'Brien, Daniel.

SECOND YEAR.

Pye, Joseph P. | Torrens, James.

FIRST YEAR.

Literary Division. | *Science Division.*

Simpson, William. | Hegarty, John.

School of Engineering.

THIRD YEAR.

Nightingale, Walter H.

SECOND YEAR.

Glover, R. Stephen. | Townsend, Thomas A.

FIRST YEAR.

Falkiner, George A. | Stratford, John.

SESSION 1868-69.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	M'Donald, Charles, B.A.
Modern Languages and Modern History,	Gillespie, Michael, B.A.
Mathematics, ...	Brooke, William, B.A.
Natural Philosophy, ...	Walsh, Michael, B.A.
Metaphysical and Economic Science, ..	Eaton, Thomas, B.A.
Chemistry, ...	Huey, John, B.A.

JUNIOR SCHOLARSHIPS.

Third Year.

Literary Division.	*Science Division.*
Drummond, Michael.	Drury, H. D'Olier.
Henry, William E.	Glover, Ralph F.
Ievers, Robert W.	M'Kinney, Samuel B. G.
Drury, Richard J.	Lewis, W. Llewellyn.
Talbot, Bertram H.	Matthews, William.

Second Year.

Literary Division.	*Science Division.*
Mitchell, Robert,	Harrison, John H.
Thompson, David.	Concannon, Patrick.
Foreman, William J.	Moran, John.
	Patterson, William.
	O'Connor, P. Fenelon.
	Clarke, John J.

First Year.

Literary Division.	*Science Division.*
Shiel, Joseph R.	Croke, J. O'Byrne.
Warren, William E.	Anderson, Adam.
Cullin, Henry C.	Mullally, Michael.
Moorhead, James.	Somerville, Richard N.
Milward, William H.	* Moorhead, James.
	Milward, George R.

* Ineligible, having obtained Scholarship in other division.

Faculty of Law.

SENIOR SCHOLARSHIP.

M'Donald, Francis, M.A.

THIRD YEAR.

M'Swinney, Robert F., M.A.

SECOND YEAR.

Maguire, Thomas M., B.A.

FIRST YEAR.

Mulligan, James.

Faculty of Medicine.

FOURTH YEAR.

O'Brien, Daniel. | M'Donnell, James O'M.

THIRD YEAR.

Pye, Joseph P.
Oolahan, William H. W. | Drury, H. D'Olier.

SECOND YEAR.

Blood, Robert. | Simpson, W.

FIRST YEAR.

Science Division.

Clements, Robert.

School of Engineering.

THIRD YEAR.

Glover, R. Stephen.

SECOND YEAR.

Falkiner, George A. | Stratford, John.

FIRST YEAR.

Holmes, Robert F.
Kain, Thomas } *equal.*

SESSION 1869-70.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Henry, William E., B.A.
Modern Languages and Modern History,	Rentoul, James Alex., B.A.
Mathematics, ...	Glover, Ralph F., B.A.
Natural Philosophy, ...	Lewis, Walter L., B.A.
Metaphysical and Economic Science, ..	Mulligan, James, B.A.
Chemistry, ...	Griffin, Thomas, B.A.
Natural History, ...	*O'Donnell, Charles J., B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Mitchell, Robert.	Harrison, John H.
Thompson, David.	Concannon, Patrick.
Foreman, William J.	Moran, John.
	Patterson, William.
	O'Connor, P. Fenelon.

SECOND YEAR.

Literary Division.	*Science Division.*
Cullin, Henry C.	Croke, J. O'Byrne.
Moorhead, James.	Anderson, Adam.
Shiel, Joseph R.	Mullally, Michael.
Warren, William E.	Somerville, Richard N.
O'Shaughnessy, John F. A.	Milward, George R.

FIRST YEAR.

Literary Division.	*Science Division.*
Maxwell, William H.	Freyer, P. Johnson.
Lynam, James.	Gorham, James J.
O'Callaghan, Matthew Q.	†Lynam, James.
O'Neill, Peter J.	Bourke, Palmer A.
Byrne, Nicholas.	M'Loughlin, James.
	Joyce, Patrick K.

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* Previously M'Donald.
† Ineligible, having obtained Scholarship in other division.

Faculty of Law.

SENIOR SCHOLARSHIP.

M'Swinney, Robert F., M.A.

THIRD YEAR.

Maguire, Thomas M., B.A.

SECOND YEAR.

Dooley, John L.

FIRST YEAR.

Todd, Robert H.

Faculty of Medicine.

FOURTH YEAR.

Colahan, William H. W. | Pye, Joseph P.

THIRD YEAR.

Walsh, Michael. | Colahan, Nicholas W.

SECOND YEAR.

Melville, Andrew S. | Brooke, William.

FIRST YEAR.

Literary Division.	*Science Division.*
Barker, Christopher F.	White, Michael.

School of Engineering

THIRD YEAR.

Falkiner, George A.

SECOND YEAR.

Quinton, John H. | Holmes, Robert F.

FIRST YEAR.

Lynam, Patrick. | Templeton, John W.

SESSION 18 0-71.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Mulligan, James, B.A.
Modern Languages and Modern History,	Moran, John, B.A.
Mathematics, ...	Harrison, John H., B.A
Natural Philosophy, ...	Glover, Ralph F., B.A.
Metaphysical and Economic Science, ..	Todd, Robert H., B.A.
Chemistry, ...	Lewis, W. Llewellyn, B.A.
Natural History, ...	Brooke, William, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Moorhead, James.	Croke, J. O'Byrne.
Shiel, Joseph R.	Anderson, Adam.
Warren, William E.	Mullally, Michael.
O'Shaughnessy, John F. A.	Somerville, Richard N.
	Milward, George R.

SECOND YEAR.

Literary Division.	*Science Division.*
Lynam, James.	Freyer, P. Johnson.
Maxwell, William H.	*Lynam, J.
O'Neill, Peter.	Gorham, James J.
	Joyce, Patrick K.
	Ellison, James.
	Megarry, James.

FIRST YEAR.

Literary Division.	*Science Division.*
†Adams, David O.	†Adams, David O. } *equal.*
Milward, Edwin O.	Gordon, John. }
M'Namara, John W.	Hickman, James.
Molony, Henry G.	Moylan, Michael J.
Dill, John.	Connolly, William E. S.

*Ineligible, having obtained Scholarship in other division.

†Having obtained *First* Place in both divisions, retains both Scholarships.

Faculty of Law.

SENIOR SCHOLARSHIP.

Maguire, Thomas M., B.A.

THIRD YEAR.

Drummond, Michael, M.A.

SECOND YEAR.

Rentoul, James Alex., B.A.

FIRST YEAR.

Concannon, Patrick.

Faculty of Medicine.

FOURTH YEAR.

Colahan Nicholas W. | Fleming, William.

THIRD YEAR.

Holland, John J. | Gillespie, Michael.

SECOND YEAR.

White, Michael. | Morris, John J.

FIRST YEAR.

Literary Division.	*Science Division.*
Warren, J. Monteith.	Leitch, Josias.

School of Engineering.

THIRD YEAR.

Darcy, William E.

SECOND YEAR.

Lynam, Patrick. | Kain, Thomas.

FIRST YEAR.

Prendergast, Patrick J. | M'Auliffe, John.

SESSION 1871-72.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Moorhead, James, B.A.
Modern Languages and Modern History,	Mullally, Michael, B.A.
Mathematics, ...	Concannon, Patrick, B.A.
Natural Philosophy, ...	Harrison, John H., B.A.
Metaphysical and Economic Science, ..	Moran, John, B.A.
Chemistry, ...	Brooke, William, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Lynam, James.	Freyer, P. Johnson.
Maxwell, William H.	* Lynam, James.
O'Neill, Peter.	Gorham, James J.
	Joyce, Patrick R.
	Ellison, James.
	Megarry, James.

SECOND YEAR.

Literary Division.	*Science Division.*	
† Adams, David O.	† Adams, David O.	
Milward, Edwin O.	Gordon, John.	*equal.*
M'Namara, John W.	Hickman, James.	
Molony, Henry G.	Monroe, Samuel H.	*equal.*
M'Mordie, Elijah.	Moylan, Michael J.	

FIRST YEAR.

Literary Division.	*Science Division.*
O'Connor, George.	O'Kinealy, Peter.
M'Namara, Joseph C.	Dundee, Isaac C.
Mullin, James.	Wallace, Hugh.
Ambrose, Robert.	Kelly, Michael.
Molony, John.	Hallowell, James.

* Ineligible, having obtained Scholarship in other division.

† Having obtained *First* Place in both divisions, retains both Scholarships.

Faculty of Law.

SENIOR SCHOLARSHIP.

Mulligan, James, M.A.

THIRD YEAR.

Rentoul, James Alex., B.A.

SECOND YEAR.

Shiel, Joseph R.

FIRST YEAR.

O'Neill, George F., M.A.

Faculty of Medicine.

FOURTH YEAR.

Holland, John J. | Gillespie, Michael J., B.A.

THIRD YEAR.

White, Michael. | Morris, John J.

SECOND YEAR.

Maguire, Daniel. | O'Connor, Peter F., B.A.

FIRST YEAR.

Literary Division. | *Science Division.*
O'Connor, Patrick. | Lynham, John I.

School of Engineering.

THIRD YEAR.

Lynam, Patrick.

SECOND YEAR.

Prendergast, Patrick J.

FIRST YEAR.

Kerin, John.

SESSION 1872-73.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Maxwell, William H., B.A.
Mathematics, ...	Mullally, Michael, B.A.
Natural Philosophy, ...	Concannon, Patrick, B.A.
Metaphysical and Economic Science,	Shiel, Joseph R., B.A.
Chemistry, ...	Freyer, P. Johnson, B.A.
Natural History, ...	Walsh, Michael, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*	
* Adams, David O.	* Adams, David O.	
Milward, Edwin O.	Gordon, John.	*equal.*
M'Namara, John W.	Hickman, James.	
Molony, Henry G.	Monroe, Samuel H.	*equal.*
M'Mordie, Elijah.	Moylan, Michael J.	

SECOND YEAR.

Literary Division.	*Science Division.*
O'Connor, George.	O'Kinealy, Peter.
M'Namara, Joseph C.	Fisher, John M.
Mullin, James.	Kelly, Michael.
Molony, John.	Dundee, Isaac C.
Watters, William.	Parker, John William.

FIRST YEAR.

Literary Division.	*Science Division.*	
Geoghegan, Joseph.	Shore, Robert.	
M'Millan, John.	Kelly, William.	*equal.*
Lavertine, Charles.	Lewis, John P.	
M'Namara, William J. U.	Glassford, Charles O.	
Wilson, Samuel L.	Goudy, James.	

* Having obtained *First* Place in both divisions, retains both Scholarships.

Faculty of Law.

SENIOR SCHOLARSHIP.

Rentoul, James Alex., B.A.

THIRD YEAR.

O'Neill, Peter J., B.A.

SECOND YEAR.

Moran, John, B.A.

FIRST YEAR.

Hanna, James.

Faculty of Medicine.

FOURTH YEAR.

White, Michael. | Macauley, Roger.

THIRD YEAR.

Maguire, Daniel. | Dempsey, Alexander

SECOND YEAR.

Lynham, John I. | Quirk, Martin.

FIRST YEAR.

Literary Division.	*Science Division.*
Hallowell, James.	Sheedy, John.

School of Engineering.

THIRD YEAR.

Prendergast, Patrick J.

SECOND YEAR.

Woods, Richard J.

FIRST YEAR.

FitzGerald, Henry.

SESSION 1873-74.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Milward, Edwin O., B.A.
Modern Languages and Modern History,	Adams, David O., B.A.
Mathematics, ...	Gordon, John, B.A.
Natural Philosophy, ...	Freyer, P. Johnson, B.A.
Metaphysical and Economic Science, ..	Concannon, Patrick, B.A.
Chemistry, ...	Gorham, James J., B.A.
Natural History, ...	Joyce, Patrick K., B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
O'Connor, George.	O'Kinealy, Peter.
M'Namara, Joseph C.	Fisher, John M.
Mullin, James.	Kelly, Michael.
Molony, John.	Dundee, Isaac C.
Watters, William.	Parker, John William.

SECOND YEAR.

Literary Division.	*Science Division.*
Lavertine, Charles.	Shore, Robert.
Wilson, Samuel L.	M'Auliffe, Daniel.
Love, George C.	Goudy, James.
M'Millan, John.	Fisher, Joseph R.
M'Namara, William J. U.	

FIRST YEAR.

Literary Division.	*Science Division.*
Molohan, John P.	M'Master, James.
Kerr, Æneas.	M'Dermott, Cornelius.
Farrelly, Michael J.	Constable, Samuel. } *equal.*
Minniken, John.	Corry, Patrick. }
Dripps, James T.	Horan, Timothy.

Faculty of Law.

SENIOR SCHOLARSHIP.

Mullally, Michael, B.A.

THIRD YEAR.

Shiel, Joseph R., B.A.

SECOND YEAR.

Hanna, James.

FIRST YEAR.

Greenfield, John K.

Faculty of Medicine.

FOURTH YEAR.

Freyer, P. Johnson, B.A. | Maguire, Daniel.

THIRD YEAR.

Lynham, John I. | O'Sullivan, Patrick J.

SECOND YEAR.

Stokes, William. | M'Afee, William.

FIRST YEAR.

Science Division.

Eakins, George R. | Delahunt, James J.

School of Engineering.

THIRD YEAR.

Woods, Richard J.

SECOND YEAR.

Mahon, Thomas.

FIRST YEAR.

Davern, John P

SESSION 1874-75.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Modern Languages and Modern History,	Mullin, James, B.A.
Mathematics, ...	O'Kinealy, Peter, B.A.
Natural Philosophy, ...	Kelly, Michael, B.A.
Metaphysical and Economic Science, ..	Hanna, James, B.A.
Chemistry, ...	Molony, John S., B.A.
Natural History, ...	Milward, Edwin O., B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Lavertine, Charles.	Shore, Robert.
Wilson, Samuel L.	M'Auliffe, Daniel.
Love, George C.	Fisher, Joseph R.
M'Millan, John.	
M'Namara, William J. U.	

SECOND YEAR.

Literary Division.	*Science Division.*
Kerr, Æneas.	M'Master, James.
Farrelly, Michael J.	Constable, Samuel.
Todd, Andrew.	Smith, John.
Megaw, Robert T.	Lewis, John P.
	M'Dermott, Cornelius.
	Morris, Richard H.

FIRST YEAR.

Literary Division.	*Science Division.*
* Henry, Augustine.	* Henry, Augustine.
Hunter, Charles W.	Waterworth, Hugh.
Anderson, Joseph R.	Sheedy, Thomas. } *equal.*
Geoghegan, Alfred.	Henderson, Thomas. }
	Hackett, Robert I. Dalbey.
	Gorham, John.

* Having obtained *First* Place in both divisions, retains both Scholarships.

Faculty of Law.

SENIOR SCHOLARSHIP

Shiel, Joseph R., M.A.

THIRD YEAR.

Gordon, John, B.A.

SECOND YEAR.

Greenfield, John K.

Faculty of Medicine.

FOURTH YEAR.

Lynham, John I. | O'Sullivan, Patrick J.

THIRD YEAR.

Beattie, Robert. | Stokes, William.

SECOND YEAR.

Love, Robert L. | Delahunt, James J.

FIRST YEAR.

Literary Division. | *Science Division.*

M'Kinlay, John. | Young, William J.

School of Engineering.

THIRD YEAR.

Fisher, John M.

SECOND YEAR.

Davern, John P. | Glassford, Charles O.

FIRST YEAR.

Barker, Alexander A. | Condon, Daniel E.

SESSION, 1875–76.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	O'Connor, George, M.A.
Modern Languages and Modern History,	Lavertine, Charles E., B.A.
Mathematics, ...	Kelly, Michael, B.A.
Natural Philosophy, ...	Shore, Robert, B.A.
Metaphysical and Economic Science, ..	Gordon, John, B.A.
Chemistry, ...	M'Namara, John W., B.A.
Natural History, ...	M'Namara, William J. U., B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Kerr, Æneas.	M'Master, James.
Farrelly, Michael J.	Constable, Samuel.
Todd, Andrew.	Smith, John.
Megaw, Robert T.	Lewis, John P.
	Morris, Richard H.

SECOND YEAR.

Literary Division.	*Science Division.*
Hunter, Charles W.	Waterworth, Hugh.
Henry, Augustine.	Henderson, Thomas.
Condon, William O.	Hackett, Robert I. Dalbey.
	James, Arthur.
	Gorham, John.

FIRST YEAR.

Literary Division.	*Science Division.*
Dodds, Robert.	Henderson, John.
Thompson, George.	Sullivan, John.
Hume, George A.	Gahan, Garner.
Campbell, James A.	Andrews, James.
Watters, Francis O. M.	

Faculty of Law.

SENIOR SCHOLARSHIP.

O'Kinealy, Peter, M.A., LL.B.

FIRST YEAR.

Card, Thomas D., B.A.

Faculty of Medicine.

FOURTH YEAR.

Allen, William. | O'Connor, Patrick.

THIRD YEAR.

Mitchell, Robert. | O'Brien, Thomas M.

SECOND YEAR.

Riordan, Daniel. | M'Kinlay, John.

FIRST YEAR.

Science Division.

Martin, Hugh H. | Smith, John.

School of Engineering.

THIRD YEAR.

Molony, John S., B.A.

SECOND YEAR.

Barker, Alexander A. | Condon, Daniel E.

FIRST YEAR.

Gahan, Michael. | Lynam, Edward.

SESSION 1876-77.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Farrelly, Michael J., B.A.
Modern Languages and Modern History,	M'Namara, Joseph C., B.A.
Mathematics, ...	Shore, Robert, B.A.
Natural Philosophy, ...	Hickman, James, B.A.
Metaphysical and Economic Science, ..	McGranahan, William, B.A.
Chemistry, ...	M'Namara, William J. U., B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Hunter, Charles W.	Waterworth, Hugh.
Henry, Augustine.	Henderson, Thomas.
Condon, William O.	Hackett, Robert I. Dalbey.
	James, Arthur.
	Gorham, John.

SECOND YEAR.

Literary Division.	*Science Division.*
Dodds, Robert.	Sullivan, John.
Hume, George A.	Henderson, John.
Anderson, Joseph R.	Gahan, Garner.

FIRST YEAR.

Literary Division.	*Science Division.*
Brown, John I.	Anderson, Alexander.
Shine, Eugene.	Brown, William.
Gleeson, Edward J.	Moreland, Robert.
Nolan, Herbert, M.B.	Vance, Robert.
Hanly, John J.	Moorhead, John R.

Faculty of Law.

SENIOR SCHOLARSHIP.

Gordon, John, B.A.

SECOND YEAR.

Card, Thomas D., B.A.

FIRST YEAR.

Todd, Andrew, B.A.

Faculty of Medicine.

FOURTH YEAR.

Mitchell, Robert. | Delahunt, James J.

THIRD YEAR.

M'Kinlay, John. } *equal.*
Riordan, Daniel. }

SECOND YEAR.

Martin, John. | O'Malley, David J.

FIRST YEAR.

Literary Division.	*Science Division.*
Sheridan, Thomas M.	Elliott, John H.

School of Engineering.

THIRD YEAR.

Barker, Alexander A.

SECOND YEAR.

Lynam, Edward W. | Gahan, Michael.

FIRST YEAR.

M'Elrea, William.

SESSION 1877-78.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Kerr, Æneas, B.A.
Modern Languages and History, ..	Todd, Andrew, B.A.
Natural Philosophy, ...	Henry, Augustine, B.A.
Metaphysical and Economic Science,	Henderson, Thomas, B.A.
Chemistry, ...	Shore, Robert, M.A.
Natural History, ...	Hackett, Robert I. Dalbey, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Dodds, Robert.	Sullivan, John.
Hume, George A.	Henderson, John.
Anderson, Joseph R.	Gahan, Garner.

SECOND YEAR.

Literary Scholarships.	*Science Scholarships.*
Brown, John I.	Vance, Robert.
Gleeson, Edward J.	Brown, William.
Shine, Eugene.	M'Dowell, Thomas H.
Hanly, John J.	Andrews, James.

FIRST YEAR.

Literary Division.	*Science Division.*
Jackson, William J.	Lowe, William J.
Morton, John H.	Eagar, Francis S.
Gillespie, James J.	Clarke, Samuel B.
Bain, John A.	Talbot, Thomas J.
Smyth, Thomas C.	* Jackson, William J.
	Mapother, Dillon E.

Faculty of Law.

FIRST YEAR.

England, William G.

*Ineligible, having obtained Scholarship in other division.

Faculty of Medicine.

FOURTH YEAR.

M'Kinlay, John. | Riordan, Daniel.

THIRD YEAR.

Reynolds, T. Taylor. | Martin, John.

SECOND YEAR.

O'Shaughnessy, Francis H. | Mullin, John F. L.

FIRST YEAR.

Literary Division.	*Science Division.*
Jackson, Joseph B.	Freyer, Samuel.

School of Engineering.

THIRD YEAR.

Lynam, Edward W.

SECOND YEAR.

M'Elrea, William. | Roseingrave, Thomas W.

FIRST YEAR

Flatley, William P. | Horneck, Samuel.

SESSION, 1878-79.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Dodds, Robert, B.A.
Modern Languages and Modern History,	Fisher, Joseph R., B.A.
Natural Philosophy, ...	Henderson, John, B.A.
Metaphysical and Economic Science, ..	Hume, George A., B.A.
Chemistry, ...	Gahan, Garner, B.A.
Natural History, ...	Henry, Augustine, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Scholarships.	*Science Scholarships.*
Brown, John 1.	Vance, Robert.
Gleeson, Edward J.	Brown, William.
Shine, Eugene.	M'Dowell, Thomas H.
Hanly, John J.	Andrews, James.

SECOND YEAR.

Literary Division.	*Science Division.*
Jackson, William J.	Lowe, William J.
Gillespie, James J.	Anderson, Alexander.
Morton, John H.	Clarke, Samuel B.
Munro, William H.	Talbot, Thomas J.
Bain, John A.	Moorhead, John R.

FIRST YEAR.

Literary Division	*Science Division.*
Kirker, H. Fitzwalter.	Patterson, Samuel.
M'Laren, James B.	Rowney, George A. H.
Millar, William J.	Blackall, Patrick.
Morrow, Henry W.	Gahan, Charles J.
O'Sullivan, Patrick.	Card, William.

Faculty of Law.

THIRD YEAR.

Todd, Andrew, B.A.

SECOND YEAR.

England, William G.

FIRST YEAR.

Donnell, William, B.A.

Faculty of Medicine.

FOURTH YEAR.

White, Sinclair. | Cochrane, Robert.

THIRD YEAR.

M'Loughlin, Francis. | Pritchard, Thomas.

SECOND YEAR.

Gibson, William W. | Fisher, Walter M.

FIRST YEAR.

Literary Division.

Copithorne, James G. | Farrelly, Thomas.

School of Engineering.

THIRD YEAR.

M'Elrea, William.

SECOND YEAR.

Hackett, Edward A. | Flatley, William P.

FIRST YEAR.

Mac Namara, Robert J.

SESSION 1879-80.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Brown, John I., B.A.
Modern Languages and Modern History,	Campbell, James A., B.A.
Mathematics, ...	Vance, Robert, B.A.
Natural Philosophy, ...	Brown, William, B.A.
Metaphysical and Economic Science, ..	Currie, William S., B.A.
Natural History, ...	M'Farlane, Hugh, M.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Jackson, William J.	Lowe, William J.
Gillespie, James J.	Anderson, Alexander.
Morton, John H.	Clarke, Samuel B.
Munro, William H.	Talbot, Thomas J.
Bain, John A.	Moorhead, John R.

SECOND YEAR.

Literary Division.	*Science Division.*
M'Laren, James B.	Patterson, Samuel.
Millar, William J.	Gahan, Charles J.
Kirker, H. Fitzwalter.	Foy, Alexander R.
M'Donagh, Redmond.	M'Neill, David.
Molloy, Mark.	Rowney, George A. H.

FIRST YEAR.

Literary Division.	*Science Division.*
Shute, Charles C.	Carroll, Henry.
Newell, Peter.	Buckley, Thomas.
M'Keague, Thomas M.	MacMillan, Robert.
Watters, John.	Gillespie, Alexander P.
	Freyer, John.
	M'Dermott, James.

Faculty of Law.

SENIOR SCHOLARSHIP.

Todd, Andrew, LL.B.

THIRD YEAR.

Hume, George A., M.A.

SECOND YEAR.

Donnell, William, B.A.

FIRST YEAR.

Brown, James.

Faculty of Medicine.

FOURTH YEAR.

M'Laughlin, Francis. | Shore, Robert, M.A.

THIRD YEAR.

Gibson, William W. | O'Connell, David V.

SECOND YEAR.

Wise, Charles H. | Mitchell, William J.

FIRST YEAR.

Literary Division.	*Science Division.*
Clarke, Joseph J.	Thompson, William H.

School of Engineering.

THIRD YEAR.

Hackett, Edward A.

FIRST YEAR.

Hardy, Earle A. | Long, James S. L.

SESSION 1880-81.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Jackson, William J., B.A.
Modern Languages and Modern History, ..	Bain, John A., B.A.
Mathematics, ...	Lowe, William J., B.A.
Natural Philosophy, ...	Anderson, Alexander, M.A.
Metaphysical and Economic Science, ..	Brown, John I., B.A.
Chemistry, ...	Clarke, Samuel B., B.A.
Natural History, ...	Munro, William H., B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
M'Laren, James B.	Patterson, Samuel.
Millar, William J.	Gahan, Charles J.
Kirker, H. Fitzwalter.	Foy, Alexander R.
M'Donagh, Redmond.	M'Neill, David.
Molloy, Mark.	Rowney, George A. H.

SECOND YEAR.

Literary Division.	*Science Division.*
Newell, Peter.	Buckley, Thomas.
Moody, John.	M'Dermott, James.
Keating, William H.	Card, William.
	M'Granahan, James.
	Freyer, John.

FIRST YEAR.

Literary Division.	*Science Division.*
Maxwell, Sydney L.	Freyer, Samuel.
Hamilton, William.	Kane, Hugh.
Shannon, Owen J.	Morton, David.
*Freyer, Samuel.	M'Cune, Thomas H.
Hogg, T. Simpson.	Stewart, John.
	Waugh, Hugh.

* Ineligible, having obtained Scholarship in other division.

Faculty of Law.

SENIOR SCHOLARSHIP.

Hume, George A., M.A.

THIRD YEAR.

Donnell, William, B.A.

SECOND YEAR.

Brown, James.

Faculty of Medicine.

FOURTH YEAR.

Gibson, William W. | O'Connell, David V.

THIRD YEAR.

Mitchell, William J. | O'Gorman, Patrick.

SECOND YEAR.

Thompson, William H. | M'Glynn, John.

FIRST YEAR.

Literary Division.	*Science Division.*
Lennan, Vincent F.	Bartley, William.

School of Engineering.

SECOND YEAR.

Hardy, Earle A. | Thompson, William J.

FIRST YEAR.

Binns, Henry A.

SESSION 1881-82.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	M'Laren, James B., B.A.
Modern Languages and Modern History, ..	Jackson, William J., B.A
Mathematics, ...	Anderson, Alexander, M.A
Natural Philosophy, ...	Vance, Robert, M.A.
Metaphysical and Economic Science, ..	Millar, William J., B.A.
Chemistry, ...	Buchanan, Andrew, B.A.
Natural History, ...	Hanly, John J., B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Newell, Peter.	Buckley, Thomas.
Moody, John.	M'Dermott, James.
Keating, William H.	Card, William.
	M'Granahan, James.
	Freyer, John.

SECOND YEAR.

Literary Division.	*Science Division.*
Shannon, Owen J.	Morton, David.
Thompson, James.	Freyer, Samuel.
Hamilton, Walter M.	M'Cune, Thomas H.
Hogg, T. Simpson.	Mahon, William.
Maxwell, Sydney L.	Kelly, Michael O.

FIRST YEAR.

Literary Division.	*Science Division.*
Evans, Isaac R.	Card, David.
M'Elwee, John.	Finucane, Thomas E.
Laing, John.	Frame, Arthur.
M'Farland, Andrew.	Gillespie, George.
Moody, William.	Atkinson, Hugh L.

Faculty of Law.

SENIOR SCHOLARSHIP.

Farrelly, Michael J., B.A.

FIRST YEAR.

Nelson, Thomas E., M.A.

Faculty of Medicine.

FOURTH YEAR.

Mitchell, William J. | O'Gorman, Patrick.

THIRD YEAR.

Thompson, William H. | Henderson, Robert W.

SECOND YEAR.

Bartley, William. | Munro, William H., B.A.

FIRST YEAR.

Literary Division. | *Science Division.*
Wade, Hugh E. | Condon, Richard T.

School of Engineering.

THIRD YEAR.

Thompson, William J.

SECOND YEAR.

Binns, Henry A.

FIRST YEAR.

Lynam, Francis J.

SESSION 1882-83.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Keating, William H.
Modern Languages and Modern History,	Newell, Peter.
Natural Philosophy, ...	Patterson, Samuel, B.A.
Metaphysical and Economic Science, ..	Jackson, William J., M.A.
Chemistry, ...	Semple, Samuel, M.A.
Natural History, ...	Gahan, Charles J., M.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Shannon, Owen J.	Morton, David.
Thompson, James.	Freyer, Samuel.
Hamilton, Walter M.	M'Cune, Thomas H.
Hogg, T. Simpson.	Mahon, William.
Maxwell, Sydney L.	Kelly, Michael O.

SECOND YEAR.

Literary Division.	*Science Division.*
Evans, Isaac R.	Gillespie, George.
M'Elwee, John.	Finucane, Thomas E.
M'Coy, Daniel.	Carroll, Henry.
Gannon, William C.	M'Elney, Robert.
Davison, Robert H.	Frame, Arthur

FIRST YEAR.

Literary Division.	*Science Division.*
Clarke, William A.	Martin, John.
M'Nulty, Thomas.	Humphreys, John.
* Benson, Arthur T.	Hopkins, Samuel.
M'Afee, Alexander.	Oldham, Thomas C. H.
Jordan, Michael J.	Benson, Arthur T.
Gregg, Andrew C.	

Faculty of Law.

THIRD YEAR.

Millar, William J., M.A.

SECOND YEAR.

Nelson, Thomas E.

FIRST YEAR.

M'Donagh, Redmond, B.A.

* Ineligible, having obtained Scholarship in other division.

Faculty of Medicine.

FOURTH YEAR.

Thompson, William H. | Henderson, Robert W.

THIRD YEAR.

Mahon, Ralph B. | MacNamara, Robert J

SECOND YEAR.

London, Richard T. | Milligan, William.

FIRST YEAR.

Science Division.

Noble, William. | Reynolds, James S.

School of Engineering.

THIRD YEAR.

Rowney, George A. H., B.A.

SECOND YEAR.

Lynam, Francis J. | O'Shaughnessy, Michael M.

FIRST YEAR.

Allman, Alfred. } *equal.*
Joyce, Raoul. }

SESSION 1883-84.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Maxwell, Sydney L., B.A.
Modern Languages and Modern History, ..	Shannon, Owen J., B.A.
Mathematics, ...	Morton, David.
Natural Philosophy, ...	Freyer, Samuel.
Metaphysical and Economic Science, ..	Smith, Henry, B.A.
Chemistry, ...	M'Cune, Thomas H., B.A.
Natural History, ...	Hogg, T. Simpson, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Evans, Isaac R.	Gillespie, George.
M'Elwee, John.	Finucane, Thomas E.
M'Coy, Daniel.	Carroll, Henry.
Gannon, William C.	M'Elney, Robert.
Davison, Robert H.	Frame, Arthur.

SECOND YEAR.

Literary Division.	*Science Division.*
Clarke, William A.	Humphreys, John.
Benson, Arthur J.	Martin, John.
Jordan, Michael J.	Card, David.
Gregg, Andrew C.	
M'Afee, Alexander.	

FIRST YEAR.

Literary Division.	*Science Division.*
Dugan, Charles W.	Keers, James.
Meeke, William M'E.	Dowd, Henry L.
Loftus, Joseph J.	Cowan, Michael H.
Hession, Nicholas J. M.	Keegan, James M.
Davidson, Andrew G.	Campbell, Richard J.

Faculty of Law.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.	SECOND YEAR.	FIRST YEAR.
Nelson, Thomas E.	M'Donagh, Redmond.	Moorhead, John R.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Thompson, William H.

FOURTH YEAR.

MacNamara, Robert J. | Waters, George A.

THIRD YEAR.

Eagleton, John F.

SECOND YEAR.

Hamilton, James. | Waters, Eaton W.

FIRST YEAR.

Literary Division.

Stewart, Joseph. | M'Cormick, Edward.

School of Engineering.

THIRD YEAR.	FIRST YEAR.
O'Shaughnessy, Michael M.	Thompson, Atwell.

SESSION 1884-85.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Evans, Isaac R.
Modern Languages and Modern History ..	Thompson, James, B.A.
Natural Philosophy, ...	M'Cune, Thomas H., B.A.
Metaphysical and Economic Science, ..	Sloane, George, B.A.
Chemistry, ...	M'Elney, Robert, B.A.
Natural History, ...	M'Elwee, John, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Clarke, William A.	Humphreys, John.
Benson, Arthur J.	Martin, John.
Jordan, Michael J.	Card, David.
Gregg, Andrew C.	
M'Afee, Alexander.	

SECOND YEAR.

Literary Division.	*Science Division.*
Davidson, Andrew G.	Henry, Moses.
Dugan, Charles W.	Cowan, Moses H.
Rusk, John.	Keegan, James M.
Hession, Nicholas J. M.	Dowd, Henry L.
Hegan, Edwin.	Keers, James M.

FIRST YEAR.

Literary Division.	*Science Division.*
Kennedy, William.	M'Candless, Thomas.
M'Kee, William J.	Shore, Patrick B.
Adams, John A.	Farrington, Walter.
Cairnes, John E.	Charleton, Robert J.
Bell, James.	Thompson, Cuthbert.

Faculty of Law.

SCHOLARSHIPS.

THIRD YEAR.

M'Donagh, Redmond, M.A.

SECOND YEAR.

Moorhead, John R., B.A.

FIRST YEAR.

Malone, John.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, .. Macnamara, Robert J.

FOURTH YEAR.

Mahon, Ralph B. | Eagleton, John F.

THIRD YEAR.

Waters, Eaton W. | Hamilton, James.

SECOND YEAR.

Stewart, Joseph. | Pierse, Gerard J.

FIRST YEAR.

Literary Division.	*Science Division.*
Heaney, James H.	Foley, Thomas H.

School of Engineering.

SCHOLARSHIPS.

SECOND YEAR.

Thompson, Atwell.

FIRST YEAR.

Binns, William N. | Long, Samuel L.

SESSION 1885-86.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Clarke, William A.
Metaphysical and Economic Science, ..	Gregg, Andrew C.
Chemistry, ...	Gillespie, George, B.A.
Natural History, ...	Martin, John.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Davidson, Andrew G.	Henry, Moses.
Dugan, Charles W.	Cowan, Moses H.
Rusk, John.	Keegan, James M.
Hession, Nicholas J. M.	Dowd, Henry L.
Hegan, Edwin.	Keers, James M.

SECOND YEAR.

Literary Division.	*Science Division.*
M'Kee, William J.	Thompson, Cuthbert.
Adams, John A.	Rentoul, Gervais C.
Hilton, Hugh.	Charleton, Robert J.
Hamilton, Samuel.	Farrington, Walter.
Cairnes, John E.	

FIRST YEAR.

Literary Division.	*Science Division.*
Maxwell, Michael T.	Bain, Alexander.
Irwin, Albert J.	* Semple, Robert J.
* Bain, Alexander.	M'Cay, Francis.
Semple, Robert J.	Keers, William.
Lydon, Martin F.	Freyer, Patrick W.

Faculty of Law.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Moorhead, John R.

SECOND YEAR.

Smith, Henry.

FIRST YEAR.

Brown, William.

* Ineligible, having obtained Scholarship in other division.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, ... Mahon, Ralph B.

FOURTH YEAR.

Waters, Eaton W.

THIRD YEAR.

Smith, Henry, B.A. | Stewart, Joseph.

SECOND YEAR.

Eldon, Joseph. | Loftus, Joseph J.

FIRST YEAR.

Literary Division. | *Science Division.*
Millea, William C. | Twomey, Michael.

School of Engineering.

SCHOLARSHIPS.

THIRD YEAR.

Thompson, Atwell.

SECOND YEAR.

Long, Samuel L. | Oldham, Thomas C. H.

FIRST YEAR.

Moon, Robert A. | Hall, Thomas A.

SESSION 1886-87.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Dugan, Charles W.
Modern Languages and Modern History, ..	Rusk, John, B.A.
Mathematics, ...	Thompson, Atwell, B.E.
Natural Philosophy, ...	Henry, Moses, B.A.
Metaphysical and Economic Science, ..	Humphreys, John.
Chemistry, ...	Keegan, James M., B.A.
Natural History, ...	M'Afee, Alexander, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
M'Kee, William J.	Thompson, Cuthbert.
Adams, John A.	Rentoul, Gervais C.
Hilton, Hugh.	Charleton, Robert J.
Hamilton, Samuel.	Farrington, Walter.
Cairnes, John E.	

SECOND YEAR.

Literary Division.	*Science Division.*
Kennedy, William.	Bain, Alexander.
Semple, Robert J.	Millea, William C.
Irwin, Albert J.	M'Cay, Francis.
Maxwell, Michael T.	Douglas, Charles.
	Raddin, George H.

FIRST YEAR.

Literary Division.	*Science Division.*
O'Hara, Patrick J.	Gannon, William J.
Clarke, Alexander F.	Love, Robert.
M'Askie, William J.	Bunton, Christopher L. W.
Gillespie, William H.	Mangan, Denis.
Donnan, William.	Bradford, Herbert A.

Faculty of Law.

THIRD YEAR.

Smith, Joseph, B.A.

SECOND YEAR.

Brown, William, M.A.

FIRST YEAR.

Buckley, Thomas.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, ... Waters, Eaton W.

FOURTH YEAR.

Smith, Henry, B.A. | Stewart, Joseph.

THIRD YEAR.

Pierse, Gerard J. | Taylor, William J.

SECOND YEAR.

Foley, Thomas H. | Laing, George M.

FIRST YEAR.

Literary Division.	*Science Division.*
O'Reilly, Henry W. H.	Connolly, Thomas J.

School of Engineering.

SCHOLARSHIPS.

THIRD YEAR.

Binns, William N.

SECOND YEAR.

Finucane, Thomas E. | Hall, Thomas A.

FIRST YEAR.

Thompson, John S.

SESSION 1887-88.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	M'Kee, William J., B.A.
Modern Languages and Modern History, ..	Hilton, Hugh.
Natural Philosophy, ...	Keegan, James M., M.A.
Metaphysical and Economic Science, ..	Davidson, Andrew G., B.A.
Chemistry, ...	Farrington, Walter.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Kennedy, William.	Bain, Alexander.
Semple, Robert J.	Millea, William C.
Irwin, Albert J.	M'Cay, Francis.
Maxwell, Michael T.	Douglas, Charles.
	Raddin, George H.

SECOND YEAR.

Literary Division.	*Science Division.*
Connolly, Thomas J.	Gannon, William J.
Love, Robert.	Bradford, Herbert A.
Gillespie, William H.	
O'Hara, Patrick J.	
M'Askie, William J.	
Gailey, Andrew.	
Clarke, Alexander F.	

FIRST YEAR.

Literary Division.	*Science Division.*
Brown, David.	Paul, John.
Lee, William.	Deans, John.
Morris, Patrick.	Harrison, Thomas J.
	Keenan, John F.
	Moran, John.
	Cambbell, Henry.
	Clements, Robert W.

Faculty of Law.

SECOND YEAR.

Buckley, Thomas.

FIRST YEAR.

O'Keeffe, James D.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, ... Stewart, Joseph, M.B.

FOURTH YEAR.

Pierse, Gerard J. | Taylor, William J.

THIRD YEAR.

Steen, James R. | Eldon, Joseph.

SECOND YEAR.

Heaney, James H. | Hamilton, Samuel.

FIRST YEAR.

Science Division.

Clements, Joseph E.

School of Engineering.

THIRD YEAR.

Finucane, Thomas E.

FIRST YEAR.

Binns, Edmund T. | Goodman, Charles W.

SESSION 1888-89.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Kennedy, William, B.A.
Mathematics, ...	Bain, Alexander.
Natural Philosophy, ...	Hall, Thomas A., B.E.
Metaphysical and Economic Science, ..	Semple, Robert J., B.A.
Chemistry, ...	Thompson, Cuthbert.
Natural History, ...	Millea, William C.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Connolly, Thomas J.	Gannon, William J.
Love, Robert.	Bradford, Herbert A.
Gillespie, William H.	
O'Hara, Patrick J.	
M'Askie, William J.	
Gailey, Andrew.	
Clarke, Alexander F.	

SECOND YEAR.

Literary Division.	*Science Division.*
Brown, David.	Paul, John.
Mangan, Denis.	Harrison, Thomas J.
Downard, Thomas.	Clements, Robert W.
Deans, John.	Hynes, Mortimer.
	O'Dea, Martin.
	Moran, John.

FIRST YEAR.

Literary Division.	*Science Division.*
Mahon, John S.	Deans, William.
Beattie, Robert A.	Bain, Philander A.
Boyd, James.	Burkitt, James P.
Hunter, Charles H.	Roe, Robert L.
Glendenning, James P. C.	Forbes, William J.

Faculty of Law.

THIRD YEAR.	SECOND YEAR.
Buckley, Thomas, B.A.	O'Connor, Francis J.

FIRST YEAR.

Jordan, Michael J., B.A.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, ... Taylor, William J.

FOURTH YEAR.

Steen, James R. | Eldon, Joseph.

THIRD YEAR.

Adams, John A., B.A. | Foley, Thomas H.

SECOND YEAR.

Martin, John. | Foley, Charles H.

FIRST YEAR.

Literary Division.	*Science Division.*
Campbell, Henry.	Robinson, James.

School of Engineering.

THIRD YEAR.

M'Cay, Francis.

FIRST YEAR.

Mahon, Arthur P. | Orpen, Richard T.

SESSION 1889-90.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Gillespie, William H., B.A.
Modern Languages and Modern History,	O'Hara, Patrick J.
Mathematics, ...	M'Cay, Francis, B.A.
Metaphysical and Economic Science, ..	Gailey, Andrew, B.A.
Chemistry, ...	Gannon, William J., B.A.

THIRD YEAR.

Literary Division.	*Science Division.*
Brown, David.	Paul, John.
Mangan, Denis.	Harrison, Thomas J.
Downard, Thomas.	Clements, Robert W.
Deans, John.	Hynes, Mortimer.
	O'Dea, Martin.
	Moran, John.

SECOND YEAR.

Literary Division.	*Science Division.*
Mahon, John S.	Kane, Thomas.
Beattie, Robert A.	Burkitt, James P.
Boyd, James.	Keenan, John F.
Hunter, Charles H.	Forbes, William J.
Gilchrist, Andrew.	Deans, William.

FIRST YEAR.

Literary Division.	*Science Division.*
O'Hara, Charles H.	M'Clelland, John A.
Rooney, John W.	Bright, James.
Walker, William.	Hayes, John C.
Caldwell, John.	M'Hugh, Patrick.
Keegan, David M.	Keillor, William R.

Faculty of Law.

THIRD YEAR.

Muldoon, John.

SECOND YEAR.

M'Connell, John K., B.A.

FIRST YEAR.

Leitch, Andrew C.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, ... Adams, John A., B.A.

FOURTH YEAR.

Kelly, Thomas B. | Heaney, James H.

THIRD YEAR.

Foley, Charles H. | Costello, Michael J. B.

SECOND YEAR.

Connolly, Thomas J. | Clements, Joseph A.

FIRST YEAR.

Literary Division.	*Science Division.*
Boyd, William.	Moran, Michael.

School of Engineering.

THIRD YEAR.

Raddin, George H.

SECOND YEAR.

Mahon, Arthur P. | Binns, Edmund T.

FIRST YEAR.

Emerson, Thomas. | Stuart, William.

SESSION 1890–91.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Mangan, Denis, B.A.
Modern Languages and Modern History, ..	Moran, John.
Mathematics, ...	Paul, John, B.A.
Natural Philosophy, ...	Gannon, William J., B.A.
Metaphysical and Economic Science, ..	Downard, Thomas, B.A.
Chemistry, ...	Hynes, Mortimer.
Natural History, ...	Connolly, Thomas J.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Mahon, John S.	Kane, Thomas.
Beattie, Robert A.	Burkitt, James P.
Boyd, James.	Keenan, John F.
Hunter, Charles H.	Forbes, William J.
Gilchrist, Andrew.	Deans, William.

SECOND YEAR.

Literary Division.	*Science Division.*
O'Hara, Charles H.	M'Clelland, John A.
Keegan, David M.	Hayes, John C.
Beatty, John.	Rutledge, Andrew.
Stuart, James.	M'Cay, Daniel.
	Lundy, Joseph.

FIRST YEAR.

Literary Division.	*Science Division.*
Mac Gregor, William.	Anderson, Henry.
Barniville, Richard T.	Burke, William.
Sloane, John.	Stewart, John.
M'Ilwaine, Robert.	Henry, John.
Walker, Andrew J.	Ewing, William H.

Faculty of Law.

THIRD YEAR.

M'Connell, John K., B.A.

SECOND YEAR.

Leitch, Andrew C.

FIRST YEAR.

Conroy, John C.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, ... Kelly, Thomas B.

FOURTH YEAR.

Costello, Michael J. B. | Foley, Charles H.

THIRD YEAR.

Allen, Robert. | Baile, Richard.

SECOND YEAR.

Clements, Robert W. | M'Donnell, Edward De M.

FIRST YEAR.

Literary Division.	*Science Division.*
Turkington, Humphrey.	Daly, John J.

School of Engineering.

THIRD YEAR.

Mahon, Arthur P.

SECOND YEAR.

Emerson, Thomas.

FIRST YEAR.

Brady, Thomas T. | Thornton, Martin.

SESSION 1891-92.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Mahon, John S., B.A.
Modern Languages and Modern History, ..	Emerson, Thomas, B.A.
Mathematics, ...	Burkitt, James P., B.A.
Metaphysical and Economic Science, ...	Gilchrist, Andrew, B.A.
Chemistry, ...	Keenan, John F.
Natural History, ...	Downard, Thomas, B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
O'Hara, Charles H.	M'Clelland, John A.
Keegan, David M.	Hayes, John C.
Beatty, John.	Rutledge, Andrew.
Stuart, James.	M'Cay, Daniel.
	Lundy, Joseph.

SECOND YEAR.

Literary Division.	*Science Division.*
Mac Gregor, William.	Henry, John.
Walker, William.	Ewing, William H.
M'Ilwaine, Robert.	Wilson, David.
Barniville, Richard T.	
Sloane, John.	
Rutledge, John G.	
Walker, Andrew J.	

FIRST YEAR.

Literary Division.	*Science Division.*
Flack, William T.	Stuart, Thomas.
Hanna, Robert K.	Montgomery, Alexander W.
Bell, William H.	Bright, John S.
Naughton, Owen.	Henry, Moses.
M'Cay, Charles.	Mallagh, Joseph.

Faculty of Law.

THIRD YEAR.

Leitch, Andrew C.

SECOND YEAR.

Conroy, John C.

FIRST YEAR.

Macnamara, Michael A.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, .. Bunton, Christopher L. W., M.B.

FOURTH YEAR.

Allen, Robert.

THIRD YEAR.

Clements, Joseph A. | Hynes, Mortimer.

SECOND YEAR.

Carroll, William S. | Moran, Michael.

FIRST YEAR.

Literary Division.	*Science Division.*
Kirwan, James St. L.	Rooney, John W.

School of Engineering.

THIRD YEAR.

Binns, Edmund T.

SECOND YEAR.

Stewart, William. | Gallagher, Stephen G.

FIRST YEAR.

Clements, Samuel D., B.A.

SESSION 1892-93.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Hunter, Charles H.
Modern Languages and Modern History,	O'Hara, Charles H.
Mathematics, ...	Hayes, John C., B.A.
Natural Philosophy, ...	M'Clelland, John A., B.A.
Metaphysical and Economic Science,	Glendenning, James P. C., B.A.
Natural History, ...	Clements, Robert W., B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Mac Gregor, William.	Henry, John.
Walker, William.	Ewing, William H.
M'Ilwaine, Robert.	Wilson, David.
Barniville, Richard T.	
Sloane, John.	
Rutledge, John G.	
Walker, Andrew J.	

SECOND YEAR.

Literary Division.	*Science Division.*
Entrican, Samuel W.	Bright, John S.
Flack, William T.	Thompson, William L.
Hanna, Robert K.	Thornton, Martin.
Scott, Frederick S.	
M'Cay, Charles.	

FIRST YEAR.

Literary Division.	*Science Division.*
Mills, John A.	Johnston, James.
Kernaghan, Thomas W.	Maybin, Hugh.
Neilson, Robert A.	Ryan, Hugh.
M'Elfatrick, Thomas A.	
Hewitt, Alfred G.	

Faculty of Law.

THIRD YEAR.

Conroy, John C.

SECOND YEAR.

Macnamara, Michael A.

FIRST YEAR.

Caldwell, John.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, ... Connolly, Thomas J., B.A.

FOURTH YEAR.

Clements, Joseph A. | Lyden, Martin F.

THIRD YEAR.

Downard, Thomas, B.A. | Nixon, John C.

SECOND YEAR.

Kirwan, James St. L. | Threlfall, Richard B.

FIRST YEAR.

Literary Division.	*Science Division.*
Montgomery, Alexander W.	Nicholson, William.

School of Engineering.

THIRD YEAR.

M'Cay, Daniel.

SECOND YEAR.

Slade, Cecil A.

FIRST YEAR.

Vance, James W. | Howley, Richard J.

SESSION 1893-94.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	MacGregor, William, B.A.
Modern Languages and Modern History, ..	M'Ilwaine, Robert, B.A.
Mathematics, ...	M'Clelland, John A., M.A.
Natural Philosophy, ...	Henry, John, B.A.
Metaphysical and Economic Science, ..	Curry, Samuel, B.A.
Chemistry, ...	Walker, Andrew J.
Natural History, ...	Nixon, John C., B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Entrican, Samuel W.	Bright, John S.
Flack, William T.	Thompson, William L.
Hanna, Robert K.	Thornton, Martin.
Scott, Frederick S.	
M'Cay, Charles.	

SECOND YEAR.

Literary Division.	*Science Division.*
Johnston, James.	Stuart, Thomas.
Mills, John A.	Ryan, Hugh.
Neilson, Robert A.	Burke, William.
Kernaghan, Thomas W.	Maybin, Hugh.
Bell, William H.	

FIRST YEAR.

Literary Division.	*Science Division.*
Reid, John.	Moody, James.
Norris, Joseph.	Watt, George.
Brown, Henry.	Lyons, Frederick W.
Strain, James K. C.	M'Kinley, David.
Roberts, Joseph A.	Orr, William R.

Faculty of Law.

THIRD YEAR.

Macnamara, Michael A.

SECOND YEAR.

Rice, James P.

FIRST YEAR.

M'Auliffe, Michael J.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, ... Allen, Robert, M.B.

FOURTH YEAR.

Downard, Thomas, B.A.

THIRD YEAR.

O'Malley, John F. | M'Manus, Michael.

SECOND YEAR.

Montgomery, Alexander W. | M'Kelvey, Thomas.

FIRST YEAR.

Literary Division.	*Science Division.*
Waters, Joseph J.	Paisley, William.

School of Engineering.

THIRD YEAR.

Walker, William.

SECOND YEAR.

Wilson, David. | Howley, Richard.

FIRST YEAR.

Carmichael, John S.

SESSION 1894-95.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Entrican, Samuel W., B.A.
Special Prize, ...	Flack, William T., B.A.
Modern Languages and Modern History,	Hanna, Robert K., B.A.
Natural Philosophy, ...	Walker, William, B.A.
Metaphysical and Economic Science, ..	Keegan, David M., B.A.
Special Prize, ...	Mac Gregor, William, M.A.
Chemistry, ...	Nixon, John C., B.A.
Natural History, ...	Montgomery, Alexander W.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Johnston, James.	Stuart, Thomas.
Mills, John A.	Ryan, Hugh.
Neilson, Robert A.	Burke, William.
Kernaghan, Thomas W.	Maybin, Hugh.
Bell, William H.	

SECOND YEAR.

Literary Division.	*Science Division.*
Reid, John.	Carmichael, John S.
Brown, Henry.	Lyons, Frederick W.
Strain, James K. C.	Moody, James.
M'Lean, Robert J.	Watt, George.
Farley, William J.	

FIRST YEAR.

Literary Division.	*Science Division.*
Hezlett, James M.	Rishworth, Frank S.
Curry, David S.	Hallidy, Robert J.
Fleming, George H.	Mills, William S.
Walker, Cuthbert F.	O'Dea, Simon.
Scott, Ernest F.	O'Flaherty, John F. M.

Faculty of Law.

SECOND YEAR.

Rutledge, John G., M.A.

FIRST YEAR.

M'Ilwaine, Robert, M.A.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, ... Allen, Robert, M.A.

FOURTH YEAR.

O'Malley, John F. | M'Manus, Michael.

THIRD YEAR.

Henry, Moses. | Corry, John G. } *equal.*
Keenan, John F., B.A. }

SECOND YEAR.

Paisley, William. | Hewitt, Alfred J.

FIRST YEAR.

Literary Division. | *Science Division.*
Keogh, William M. P. | Kerans, George C. L.

School of Engineering.

THIRD YEAR.

Wilson, David.

FIRST YEAR.

Gaston, James.

The Blayney Exhibition.

In Classics.

Johnston, James. | Mills, John A. (*proxime accessit*).

SESSION 1895-96.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Mills, John A.
Mathematics, ...	Stuart, Thomas, B.A.
Natural Philosophy, ...	Maybin, Hugh, B.A.
Metaphysical and Economic Science, ...	*Johnston, James, B.A.
Chemistry, ...	Ryan, Hugh, B.A.
Natural History, ...	Neilson, Robert A.
Special Prize, ...	Clarke, John Andrew.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Reid, John.	Carmichael, John S.
Brown, Henry.	Lyons, Frederick W.
Strain, James K. C.	Moody, James.
M'Lean, Robert J.	Watt, George.
Farley, William J.	

SECOND YEAR.

Literary Division.	*Science Division.*
Hezlett, James M.	Rishworth, Frank S.
Watson, John.	†Hezlett, James M.
Walker, Cuthbert F.	Mills, William S.
Curry, David S.	Gaston, James.
Scott, Ernest F.	

FIRST YEAR.

Literary Division.	*Science Division.*
Booth, Samuel.	M'Lean, Andrew H.
Bailey, Alexander T.	Ebbitt, Richard.
Best, Robert.	Whitton, Joseph.
O'Hara, Valentine.	

Faculty of Law.

SENIOR EXHIBITION.

M'Namara, Michael J.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.	SECOND YEAR.	FIRST YEAR.
Rutledge, John G., M.A.	MacGregor, William, M.A.	Jones, James, M.A.

* Has gained an open Exhibition in Modern History at Merton Coll., Oxford.

† Ineligible, having obtained Scholarship in other division. Awarded a Special Prize.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, .. Montgomery, Alexander W., B.A.

JUNIOR SCHOLARSHIPS.

FOURTH YEAR.

Carbery, Edward O. B.

SECOND YEAR.

Keogh, William M. P. | Kerans, George C. L.

FIRST YEAR.

Science Division.

Cawley, Patrick T. | Anderson, Joseph G.

School of Engineering.

SECOND YEAR.

Pearson, James D.

FIRST YEAR.

Fleming, George H.

The Blayney Exhibition.

In Classics.	*In Science.*
Reid, John.	Carmichael, John S.

SESSION 1896–97.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Reid, John.
Special Prize, ...	Kernaghan, Thomas W., B.A.
Mathematics, ...	Lyons, Frederick W., B.A.
Natural Philosophy, ...	Ryan, Hugh, B.A.
Metaphysical and Economic Science, ..	Strain, James K. C., B.A.
Natural History, ...	Mills, John A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Hezlett, James M.	‡ Rishworth, Frank S.
Watson, John.	† Hezlett, James.
Walker, Cuthbert F.	Mills, William S.
Currie, David S.	Gaston, James.
Scott, Ernest F.	

SECOND YEAR.

Literary Division.	*Science Division.*
Booth, Samuel.	Hallidy, Robert J.
Barr, Andrew.	M'Lean, Andrew H.
Best, Robert.	
Bailey, Alexander T.	
O'Hara, Valentine.	

FIRST YEAR.

Literary Division.	*Science Division.*	
* Warnock, William.	* Warnock, William.	
Clarke, Margaret.	Perry, Samuel.	
Simpson, William A.	Renshaw, John W.	
Aimers, Margaret M.	Moore, William I.	
† Renshaw, John W.	Brennan, Thomas.	} *equal.*
Bodkin, Leo F.	Mann, Samuel.	} *equal.*

Faculty of Law.

SENIOR EXHIBITION.

Rutledge, John G., M.A.

---

* Having obtained *First* place in both divisions, retains both Scholarships.

† Ineligible, having obtained Scholarship in other division.

‡ Resigned.

Faculty of Law—*continued.*

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Mac Gregor, William, M.A.

SECOND YEAR.

Jones, James, M.A.

FIRST YEAR.

Kernaghan, Thomas W., B.A.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, ... Paisley, William.

JUNIOR SCHOLARSHIPS.

FOURTH YEAR.

* Paisley, William. | Hewitt, Alfred J.

THIRD YEAR.

Keogh, William M. P. | Neilson, Robert A.

SECOND YEAR.

Cawley, Patrick T. | Anderson, Joseph G.

FIRST YEAR.

Literary Division.	*Science Division.*
Walsh, Thomas.	Sandys, William A. } *equal* Clements, John. }

School of Engineering.

THIRD YEAR.

Carmichael, John S.

SECOND YEAR.

Fleming, George H. | Rishworth, Frank S.

The Blayney Exhibition.

Classics, ... Hezlett, James.

---

* Resigned.

SESSION 1897–98.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Farley, William J., B.A.
Modern Languages, Modern History, ...	Watson, John, B.A.
Natural Philosophy, ...	Hezlett, James M., B.A.
Metaphysical and Economic Science, ..	Curry, David S.
Chemistry, ...	Mills, William S.
Natural History, ...	Scott, Ernest F.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Barr, Andrew.	Walsh, Thomas.
Booth, Samuel.	Hallidy, Robert J.
Bailey, Alexander T.	McLean, Andrew H.
Clarke, John A.	

SECOND YEAR.

Literary Division.	*Science Division.*
*Warnock, William.	*Warnock, William.
Clarke, Margaret.	Moore, William I.
Aimers, Margaret M.	Mann, Samuel.
Simpson, William A.	Renshaw, John W.
Bodkin, Leo F.	

FIRST YEAR.

Literary Division.	*Science Division.*
*Strain, Thomas G.	*Strain, Thomas G.
Williams, William J.	Cummins, Robert J.
McCausland, Joseph.	Hall, John.
O'Gorman, Andrew.	Bailey, Robert.
O'Flynn, Michael J.	

SCHOLARS.

Faculty of Law.

SENIOR EXHIBITION.

MacGregor, William, M.A., LL.B.

*Having obtained *First* place in both divisions, retains both Scholarships.

JUNIOR SCHOLARSHIPS.

SECOND YEAR.

John T. Monahan.

Faculty of Medicine.

SENIOR EXHIBITION.

Anatomy and Physiology, ... Hewitt, Alfred J.

JUNIOR SCHOLARSHIPS.

FOURTH YEAR.

Kerans, George C. L.

THIRD YEAR.

Cawley, Patrick T. | Anderson, Joseph G.

SECOND YEAR.

* Walsh, Thomas.
Richards, Henry E. S. | Sandys, William A.

FIRST YEAR.

Literary Division.	*Science Division.*
† Forde, Dudley.	Forde, Dudley.
Dee, James.	

School of Engineering.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Rishworth, Frank S.

SECOND YEAR.

Whitton, Joseph.

FIRST YEAR.

Emerson, Richard G.
Hamilton, Thomas.

The Blayney Exhibition.

Science, ... McLean, Andrew H.

---

* Ineligible, having obtained an Arts Scholarship of the Third Year Science Division.

† Ineligible, having obtained a Scholarship in the Science Division.

SESSION 1898-99.

Faculty of Arts.

SENIOR SCHOLARSHIPS.

Ancient Classics, ...	Booth, Samuel.
Natural Philosophy, ...	M'Lean, Andrew H.
Natural History, ...	Walsh, Thomas.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Literary Division.	*Science Division.*
Rea, Thomas.	Moore, William I.
Clarke, Margaret.	Whitton, Joseph.
Aimers, Margaret M.	
* Simpson, William A.	

SECOND YEAR.

Literary Division.	*Science Division.*
†Strain, Thomas G.	†Strain, Thomas G.
M'Causland, Joseph.	Perry, Samuel.
Williams, William J.	Hall, John.
M'Grath, Edward H.	
O'Gorman, Andrew.	
O'Flynn, Michael J.	

FIRST YEAR.

Literary Division.		*Science Division.*
Warnock, James.		Cole, James A.
Porterfield, Samuel.	*equal.*	‡ Warnock, James.
O'Neill, Joseph J.		M'Lachlan, Robert B.
Lydon, Patrick J.		
M'Feeters, Robert J.		
Daly, Emily D. M.		
M'Conaghy, John.		
Gailey, William.		

Faculty of Law.

JUNIOR SCHOLARSHIPS.

FIRST YEAR.

Bodkin, Leo F.

---

* Ineligible, having obtained a Medical Scholarship of the First Year —Science Division.

† Having obtained *First* place in both divisions, retains both Scholarships.

‡ Ineligible, having obtained a Scholarship in the Literary Division.

Faculty of Medicine.

SENIOR SCHOLARSHIP.

Anatomy and Physiology, ... Anderson, Joseph G.

JUNIOR SCHOLARSHIPS.

FOURTH YEAR.

* Anderson, Joseph G. | Mills, John A., B.A.

THIRD YEAR.

Richards, Henry E. S. | Scott, Ernest F.

SECOND YEAR.

Warnock, William. | Best, Robert.

FIRST YEAR.

Literary Division.	*Science Division.*
Burke, Henry J.	Simpson, William A.

School of Engineering.

SENIOR SCHOLARSHIP.

Hall, Arthur A., B.A.

JUNIOR SCHOLARSHIPS.

THIRD YEAR.

Mills, William S., B.A.

SECOND YEAR.

Cummins, Robert J. | Burden, William M'C.

The Blayney Exhibition.

Classics, ... Williams, William J.

* Ineligible, having obtained the Senior Scholarship in Anatomy and Physiology.

GRADUATES.

Adair, James J., ...	B.A. 1858; M.D. 1861.
Adams, Archibald, ...	M.D., M.CH. 1872.
Adams, David O., ...	B.A. 1873; M.A. 1882.
e Adams, John A., ...	B.A. 1888; M.B., B.CH., B.A.O. 1890.
c Agnew, Samuel, ...	B.A. 1868; M.D. 1871; M.CH., Dip. Obs. 1872; M.A. 1882.
Allen, Alfred, ...	M.D., M.CH., Dip. Obs. 1876.
Allen, Robert, ...	M.B., B.CH., B.A.O. 1893.—Demonstrator of Anatomy, Queen's College, Galway; Travelling Medical Scholar, Royal Univ. of Ireland, 1894.
a Allen, William, ...	M.D., M.CH., Dip. Obs. 1877.—Demonstrator of Anatomy, Univ., Glasgow.
Ambrose, Daniel, ...	M.D. 1865.
Ambrose, Robert, ...	B.A. 1876.
a Anderson, Alexander, ...	B.A. 1880; M.A. 1881.—Late F.R.U.I., late Fellow S.S. Coll. Camb., Professor of Natural Philosophy, Queen's College, Galway.
Anderson, Edward, ...	M.D. 1867.
e Anderson, Joseph R., ...	B.A. 1878; M.A. 1882.
c Andrews, John, ...	M.D., M.CH. 1883.
Armstrong, Thomas M., ..	M.D. 1869.
e Arnold, Pierce, ...	B.A. 1856; M.A. 1882.
a Atkinson, Rt. Hon., John, ..	B.A. 1861; LL.B. 1865; M.A., LL.D. 1882; Q.C.; Bencher of the Honourable Society of King's-Inns, Dublin; Attorney-General for Ireland; P.C.
Atkinson, Miles H. C., ...	M.D. 1879; M.CH. 1880.
Atkinson, William, ...	M.D. 1879.
Atock, Arthur, ...	M.D. 1885; M.CH. 1886; B.A.O. 1888.
Atock, Martin H., ...	M.D., M.CH. 1882; B.A.O. 1889.
Bacon, Theophilus, ...	M.D., M.CH. 1878.
e Bain, John A., ...	B.A. 1880; M.A. 1882.
a Barker, Alexander A., ...	B.E. 1877; M.E. 1882.
Barnes, Leopold J. J., ...	M.D. 1869.
Bartley, William., ...	M.D., M.CH. 1884; B.A.O. 1890.
a Bateman, Richard C., ...	B.A. 1857; M.A. 1882.
Beattie, Charles J., ...	M.B., B.CH., B.A.O. 1889.
Beattie, Robert, ...	M.D., M.CH. 1876; Dip. Obs. 1879.

a With First Honours. *c* Naval Medical Service. *e* With Second Honours.

Beattie, Robert A., ... B.A. 1891.
Beatty, John, ... B.A. 1893.
Beatty, John W., ... M.D. 1879.
Bell, James, ... B.A. 1888.
Bell, Robert, ... M.D., M.CH. 1884.
Binns, Edmund T., ... B.A. 1892; B.E. 1893.
a Binns, Henry A., ... B.E. 1883.
d Binns, William N., ... B.E. 1888.
b Black, John G., ... M.D., Dip. Obs. 1881; M.CH. 1882.
Bligh, John, ... M.D., M.CH. 1865.
b Blood, Robert, ... M.D., M.CH. 1871.
Bournes, William H., ... M.D. 1859.
Boycott, W. Douglass, ... B.A. 1883.
Boyd, Robert J., ... M.D., M.CH. 1886; B.A.O. 1890.
Bradshaw, George B., ... Dip. Agric. 1857.
Breen, John, ... B.A. 1857.
Breen, Michael, ... B.A. 1857; M.D. 1861.
Bright, John S., ... B.A. 1895.
b Brodie, James F., ... M.D., M.CH., Dip. Obs. 1876.
e Brooke, John, ... B.A. 1867; M.A. 1870.
a Brooke, William, ... B.A. 1867; M.D. 1874; M.A. 1882.
c Browmlow, Thomas D., ... M.D. 1863.
Brown, Henry, ... B.A. 1897.
e Brown, John I., ... B.A. 1879; M.A. 1882.
a Brown, William, ... B.A. 1879; M.A. 1882; LL.B. 1887.
Browne, Andrew, ... M.D. 1864.
Browne, David, ... B.A. 1891; M.A. 1893.
e Browne, William A., ... B.A. 1853; M.A. 1882.
Buchanan, L. Dobbin, ... M.D. 1861.
Buckley, Thomas, ... B.A. 1882; LL.B. 1889.
c Bunton, Christopher L. W., .. M.B., B.CH., B.A.O. 1891.—Demonstrator, Queen's Coll., Galway.
Burke, Edward, ... B.E. 1870.
Burke, John, ... B.A. 1865; M.D. 1872.
Burke, John P., ... M.D. 1861.
b Burke, John R., ... M.D. 1861.
b Burke, Martin J., ... B.A. 1858; M.D. 1859.
Burke, Michael J., ... B.A. 1863; M.D. 1867.
a Burkitt, James P., ... B.A. 1891; B.E. 1892; County Surveyor of Fermanagh.

e Cairnes, John E., ... B.A. 1887; M.A. 1889.
Caldwell, William H., ... M.D., M.CH., Dip. Obs. 1880.
a Campbell, James A., ... B.A. 1879; M.A. 1882.
c Carbery, Edward O. B., .. M.B., B.CH., B.A.O. 1897.
Card, David, ... B.A. 1887.

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a With First Honours. *b* Army Medical Service.
c Naval Medical Service.
d Harbour Engineer and Borough Surveyor of Galway.
e With Second Honours.

Card, William, ...	.. B.A. 1886.
Carey, Patrick, ...	.. B.A. 1868.
a Carmichael, John S., ..	.. B.A., B.E. 1897.
a b Carpenter, William, ..	.. M.D. 1862.
Carroll, Henry, ...	.. B.A. 1884.
Carroll, James, ...	.. M.D., M.CH. 1883; B.A.O. 1889.
Carroll, Richard, ...	.. M.D. 1862.
Carroll, William S., ..	.. M.B., B.CH., B.A.O. 1895.
Charlton, Robert J., ..	.. B.A. 1887.
a Chestnutt, Joseph W., ..	.. B.A. 1860; M.D. 1865; M.A. 1882.
e Clancy, John J., ...	.. B.A. 1866; M.A. 1868; B.L. (Ir.); M.P.
Clarke, John A., ..	.. B.A. 1898.
e Clarke, Samuel B., ..	.. B.A. 1880; M.A. 1882.
Clarke, Thompson R., ..	.. M.D., M.CH. 1866.
Clarke, William, ...	.. B.A. 1859.
Clarke, William A., ..	.. B.A. 1886; LL.B. 1890.
Clements, Francis H., ..	.. M.B., B.CH., B.A.O. 1892.
Clements, Joseph A., ..	.. M.B., B.CH.. B.A.O. 1895.
Clements, Robert W., ..	.. B.A. 1894; M.B., B.CH., B.A.O. 1895.
Clements, Robert, ..	.. M.D. 1873; Medical Inspector Local Government Board (Ireland).
b Climo, William H., ..	.. M.D. 1860.
Clinch, Patrick J., ..	.. B.E. 1882.
Coates, George J., ..	.. M.D., M.CH., Dip. Obs. 1880.
Coates, William, ...	.. M.D., M.CH., Dip. Obs. 1876; M.A.O. 1887.
b e Colahan, John, ...	.. M.D. 1857.
Colahan, Nicholas W., ..	.. M.D., M.CH. 1872.—Professor of Materia Medica, Queen's College, Galway.
c Colahan, William H. W.,	.. M.D., M.CH. 1870.
b Comerford, Henry, ..	.. M.D., M.CH. 1865.
a Concannon, Patrick, ..	.. B.A. 1871; M.A. 1874.
e Condon, Daniel E., ..	.. B.E. 1879; M.E. 1882.
e Connolly, Thomas J., ..	.. B.A. 1891; M.B., B.CH., B.A.O. 1893.
Conolly, James, ...	.. B.A. 1858; M.D. 1866.
e Conolly, Patrick W., ..	.. B.A. 1861; M.A. 1865.—Civil Service of Ceylon, Second place.
Considine, P. Oswald, ..	.. M.D. 1878.
c Conway, John K., ..	.. M.D. 1866.
a Copithorne, James G., ..	.. B.A. 1879; M.A. 1882.
a Corley, Anthony H., ..	.. M.D. 1863; D.SC. *Honoris Causa*, 1882.
Corry, John G., ...	.. M.B., B.CH., B.A.O. 1897.
Costello, Michael J. B., ..	.. M.B., B.CH., B.A.O. 1891.
Costello, Thomas B., ..	.. M.D., B.CH., B.A.O. 1888.
Craig, Samuel R., ..	.. B.A. 1869.
Crean, Martin J., ..	.. M.D. 1857.

a With First Honours.
b Army Medical Service.
c Naval Medical Service.
e With Second Honours.

Creighton, Robert W., ... B.E. 1883.
e Croke, J. O'Byrne, ... B.A. 1871; M.A. 1874.
Crone, Alexander, ... B.A. 1877.
Crooks, William, ... B.A. 1865.
Crotty, Richard D., ... B.A. 1861.—Co. Inspector, R.I.C.
Crowley, Patrick, ... M.B., B.CH., B.A.O. 1890.
Cullin, Henry C., ... B.A. 1871.
Cuningham, John S. A., .. M.D. 1866.
e Cunningham, William, ... B.A. 1861; M.A. 1882.
Cuppage, William B., ... M.D., M.CH. 1871; Dip. Obs. 1877.
Curry, David S., ... B.A. 1898.
a Curry, Samuel, ... B.A. 1893.

Daly, John H. C., ... M.B., B.CH., B.A.O. 1897.
e Davidson, Andrew G., ... B.A. 1887.
Davies, W. Naunton, ... M.D. 1880; M.CH., Dip. Obs. 1881.
b Davis, John N., ... M.D. 1862.
Davis, John W., ... M.D. 1869.
Davis, William, ... M.D. 1874; M.CH. 1875.
Davy, Alfred, ... Dip. Eng. 1867; M.D. 1870; B.E. 1882.
b Davy, Francis A., ... M.D. 1867.
Davys, Frank, ... B.A. 1858.
c Daxon, William, ... M.D. 1862.—Resident Physician, District Asylum, Ennis.
c Deane, Henry, ... B.A. 1865; M.A. 1882; Engineer-in-Chief of Railways under the Government, Victoria (Australia).
Deans, John, ... B.A. 1890.
Deans, William, ... B.A. 1891.
c Delmege, Alfred G., ... M.D. 1868.
b Delmege, J. P. De G., ... M.D. 1862.
Dempsey, Alexander, ... M.D. 1874.
e Dick, James, ... B.A. 1864; M.A. 1866.
Dick, John, ... M.D. 1869.—Surgeon, Mount Ida District Hospital, Otago, New Zealand.
b Dickenson, Frederick F., .. M.D. 1863.
Dickey, Samuel, ... M.D., M.CH., Dip. Obs. 1879.
Dickson, John D., ... M.D., M.CH., Dip. Obs. 1876.
Divers, Edward, ... M.D. 1860; D.SC. *Honoris Causa*, 1897; F.R.S. — Professor of Chemistry in the Imperial University, Japan.
a Dobbyn, John S., ... M.D. 1875.
a Dodds, Robert, ... B.A. 1878; M.A. 1879.
Dooley, John L., ... B.A. 1873.

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a With First Honours.
b Army Medical Service.
c Naval Medical Service.
e With Second Honours.

Dooley, Michael S., ...	B.A. 1865; Dip. Eng. 1865; M.E. 1882.—Telegraph Department, India.
Dougan, George, ...	M.D., M.CH., Dip. Obs. 1875.
Dowling, Jeremiah J., ...	B.A. 1853; M.D. 1858.
Dowling, Patrick A. S., ...	B.A. 1895; B.E. 1898.
c Downard, Thomas, ...	B.A. 1890; M.B., B.CH., B.A.O. 1898.
Doyle, Peter John, ...	M.D. 1883.
c Drummond, Michael, ...	B.A. 1869; M.A. 1870.—Q.C. (Ir.)
Drury, Richard J., ...	B.A. 1869; M.D. 1873; Dip. Obs 1874.
b Drury, Robert, ...	M.D. 1870.
c Duffy, Francis, ...	M.D. 1864; M.CH. 1865.
a Duggan, Charles W., ...	B.A. 1852; M.A. 1853.—Inspector National Schools.
Duke, Alexander W., ...	M.D. 1867.
Dundee, Isaac C., ...	B.A. 1874; M.D. 1877; M.CH. 1878.
Dwyer, Peter J., ...	M.D. 1869.
a Eagleton, John F., ...	M.B., 1885; M.CH. 1886.
Eaton, Richard, ...	M.D. 1855.—Resident Physician, Asylum, Ballinasloe.
c Eaton, Thomas, ...	B.A. 1868; M.A. 1871.
Edge, John D., ...	M.D. 1870.
c Ekin, Edward, ...	B.A. 1880; M.A. 1881.
Eldon, Joseph, ...	M.B., B.CH., B.A.O. 1889; M.D., M.CH. 1895.
Emerson, T. Gilbert, ...	M.D., M.CH. 1875.
Emerson, Thomas, ...	B.A. 1891.—Civil Service of India,
England, William G., ...	B.A. 1880; B.L. (Ir.)
c Entrican, Samuel W., ...	B.A. 1894; M.A. 1896.
Evans, Isaac Rennison,	B.A. 1885.
Evans, John, ...	B.A. 1852.
b Evatt, George G. J. H., ..	M.D. 1863.
Evatt, Humphrey, ...	B.A. 1859.—Surveyor-General, Sierra Leone.
Fairbrother, Jacob, ...	M.D., M.CH. 1884.
a Falkiner, George A., ...	B.E. 1871; M.E. 1882.
c Falkiner, Richard D., ...	Dip. Eng. 1861; M.E. 1882.—Engineer, Public Works of India.
Farley, William J., ...	B.A. 1896.
c Farrelly, Michael J., ...	B.A. 1876; M.A. 1882; LL.B. 1890; LL.D. 1892; B.L. (Ir.)—Formerly Member of Senate of the Royal University.
Farrelly, Thomas, ...	M.D, M.CH. 1883.
Feeny, Dominick, ...	B.A. 1863.

a With First Honours. *c* With Second Honours.
b Army Medical Service.

b Ferguson, Frederick,	.. ..	M.D. 1862.
Finnucane, Thomas E.,	.. ..	B.E. 1889.
e Fisher, John M.,	.. ..	B.E. 1875; M.E. 1882.
Fisher, Joseph R.,	.. ..	B.A. 1876; B.L. (Eng.)
Fitzgerald, Gerald H.,	.. ..	M.D. 1874; M.CH. 1875.
e Fitzpatrick, John,	.. ..	B.A. 1868; M.A. 1869.
c Fitzpatrick, Joseph A.,	.. ..	M.D., M.CH. 1865.
Fitzsimon, C. Collingwood,	..	M.D., Dip. Obs. 1875.
e Flack, William T.,	.. ..	B.A. 1894.
a Flatley, William P.,	.. ..	B.E. 1880; M.E. 1882.
Fleming, William,	.. ..	M.D. 1871; M.CH. 1872.
Flood, John C.,	.. ..	M.D., M.CH., Dip. Obs. 1875.
Foley, Charles H.,	.. ..	M.B., B.CH., B.A.O. 1893.
Foley, Thomas H.,	.. ..	M.B., B.CH., B.A.O. 1890.
a Forde, Patrick F.,	.. ..	B.A. 1854; M.A. 1856.
Foreman, Robert L.,	.. ..	B.A. 1864.—Civil Service of India.
Forman, William J.,	.. ..	B.A. 1876.
a Forsyth, Samuel M'C.,	.. ..	B.A. 1865; M.A. 1882.
Forsythe, Anderson,	.. ..	B.A. 1869; M.D. 1871.
e Foy, Alexander R.,	.. ..	B.A. 1881; M.A. 1882.
d French, John G.,	.. ..	M.D., M.CH. 1870.—First Place, Indian Medical Service.
a Freyer, John,	.. .. ..	B.A. 1882.
ad Freyer, P. Johnson,	.. ..	B.A. 1872; M.D., M.CH., Dip. Obs. 1874; M.A. 1882.—First Place, Indian Medical Service.
Freyer, Samuel,	.. .. ..	B.A. 1884.
e Gahan, Charles J.,	.. ..	B.A. 1881; M.A. 1882.
Gahan, Garner,	.. .. ..	B.A. 1878.
Gailey, Andrew,	.. .. ..	B.A. 1889.
Gailey, John,	.. .. ..	B.A. 1882.
Gallagher, Stephen G.,	.. ..	B.E. 1896.
e Gannon, William J.,	.. ..	B.A. 1889; M.A. 1892.—Elected to Science Research Scholarship by H.M. Exhibition (1851) Commissioners; Lecturer, the Owens College, Manchester; Head Master of the Municipal School of Science, Stafford; Science Master and Inspector to the Staffordshire County Council.
Garry, Thomas G.,	.. ..	M.D., M.CH., Dip. Obs. 1883; M.A.O. 1886.
e Gaston, James,	.. . ..	B.A., B.E. 1897.
Geoghegan, A. Osmond,	..	M.D. 1878; M.CH. 1879.
Geoghegan, F. Meagher,	..	M.D. 1876.
Gibson, William W.,	.. ..	M.D. 1881; M.CH. 1882.

a With First Honours. *c* Naval Medical Service.
b Army Medical Service. *d* Indian Medical Service.
e With Second Honours.

Gilchrist, Andrew, ... B.A. 1891.
Gill, Peter T., ... B.A., B.E. 1897.
e Gillespie, George, ... B.A. 1884; M.A. 1885.
Gillespie, James J., ... B.A. 1880.
Gillespie, Michael, ... B.A. 1867; M.D. 1872, M.CH., Dip. Obs. 1873.
Gillespie, William H., ... B.A. 1889; M.A. 1890.
e Glover, R. Francis, ... B.A. 1869; M.A. 1882.
a Glover, R. Stephen, ... B.E. 1869; M.E. 1882.
Glynn, John, ... M.D. 1883.
Gordon, John, ... B.A. 1873; LL.B. 1876; LL.D. 1882.—Q. C. (Ir.)
b Gore, Albert A., ... M.D. 1860.
c Gorham, Anthony, ... M.D. 1866.—Fleet-Surg. R.N.
e Gorham, James J., ... B.A. 1872; M.D., M.CH., Dip. Obs. 1875; M.A. 1882.
Gorham, John, ... B.A. 1877.
Gormley, John, ... B.A. 1861.
b Gormley, Joseph A., ... M.D., M.CH. 1873.
b Gouldsberry, V. Skipton, .. M.D. 1862.
Grealy, John, ... B.A. 1861.
Green, Joseph J., ... B.A. 1862.
Greenfield, John K., ... B.A. 1875.
Greenway, Alfred G., ... M.D. 1870; M.CH. 1895.—House Physician, General Hospital, Birmingham.
Gregg, Andrew C., ... B.A. 1886.
Gregory, William J., ... M.B., B.CH., B.A.O. 1889.
Griffin, John, ... B.A. 1863.
e Griffin, Thomas, ... B.A. 1867; M.A. 1882.
Griffith, William, ... B.A. 1860.

a Hackett, Edward A., ... B.E. 1880; M.E. 1882.—County Surveyor of Tipperary.
ab Hackett, Robert I. Dalbey, .. B.A. 1877; M.D., M.CH. 1880; M.A. 1882.
Hall, Arthur A., ... B.A. 1898.
Hall, Charles B., ... M.D. 1878; M.CH. 1880.
e Hall, Thomas Andrew, ... B.E. 1888; B.A. 1889.
e Hallidy, Robert J., ... B.E., B.A. 1898.
Hamilton, James, ... M B., B.CH., B.A.O. 1889.
Hamilton, James, ... M.D., M.CH., Dip. Obs. 1875.
Hamilton, Samuel, ... B.A. 1889; M.B., B.CH., B.A.O. 1891
Hanly, Edward, ... M.D., M.CH. 1879.
e Hanly, John J., ... B.A. 1880; M.A. 1881.
Hanly, Joseph F., ... B.E. 1897.
e Hanna, James, ... B.A. 1874; M.A. 1876.

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a With First Honours.
b Army Medical Service.
c Naval Medical Service.
e With Second Honours.

e Hanna, Robert K.,	.. ..	B.A. 1894.
b Hanrahan, James J.,	.. ..	M.D. 1864.
Hardiman, James,	.. ..	Dip. Agric. 1853.
Hare, Gustavus J. C.,	.. ..	B.A. 1863; M.A. 1865.
Harkin, James C.,	.. ..	M.B., B.CH., B.A.O. 1889.
Harper, Henry, ..	.. ..	M.D. 1881.
Harrington, Denis,	.. ..	M.D., M.CH., Dip. Obs. 1877.
a Harrison, John H.,	.. ..	B.A. 1870; M.A. 1872.—Civil Service of India.
Harrison, Thomas,	.. ..	B.A. 1892.
Hart, James C., ..	.. ..	B.A. 1858.
e Haslam, George J.,	.. ..	M.D. 1880.
e Hayes, John C., ..	.. ..	B.A 1892.
Hayes, John S., ..	.. ..	M.D. 1876.
Hayes, Patrick, ..	.. ..	B.A., B.E. 1890.
Heany, James H.,	.. ..	M.B., B.CH., B.A.O. 1890.
Hegan, Edwin, ..	.. ..	M.B., B.CH., B.A.O. 1891.
Hegarty, John, ..	.. ..	M.D., M.CH. 1872.
a Henderson, John,	.. ..	B.A. 1878; M.A. 1882.
Henderson, Robert W., ..	.. ..	M.D., M.CH. 1883.
Henderson, S. Dunlop, ..	.. ..	M.D., M.CH. 1882.
e Henderson, Thomas,	.. ..	B.A. 1877; M.A. 1882.
a Henry, Augustine,	.. ..	B.A. 1877; M.A. 1878.—Consular Med. Service, China.
e Henry, Joseph, ..	.. ..	M.D. 1874.
Henry, John W. R.,	.. ..	B.A. 1857.
e Henry, Moses, ..	.. ..	B.A. 1886; M.A. 1888.
Henry, Moses, ..	.. ..	M.B., B.CH., B.A.O. 1897.
a Henry, William E.,	.. ..	B.A. 1869; M.A. 1870.—President, Wesleyan Coll., St. John's, N.B.
a Henry, John, ..	.. ..	B.A. 1893; M.A. (with Special Prize) 1894; B.E. 1895.—Elected to Science Research Scholarship by H. M. Exhibition (1851) Commissioners, 1896; Demonstrator of Physics, Queen's College, Galway.
Heuston, Francis T.,	.. ..	M.CH., M.D. 1878.—Professor of Anatomy, Royal College of Surgeons in Ireland; Consult-Surgeon to the Coombe Lying-In Hospital, Dublin; Consulting Surgeon to the Cripples' Home, Bray; Surgeon to the Adelaide Hospital, Dublin; Member of the Council, Royal College of Surgeons in Ireland.
Hewitt, David W.,	.. ..	M.B., B.CH., B.A.O. 1895.

a With First Honours. *e* With Second Honours.
b Army Medical Service.

e Hezlett, James M.,	.. ..	B.A. 1897; Demonstrator of Physics, Queen's College, Galway; Civil Service of India.
b Hickman, Arthur,	.. ..	M.D. 1880.
a Hickman, James,	.. ..	B.A. 1874; M.A. 1877.
Hickman, William,	.. ..	M.D., M.CH. 1872.
e Hilton, Hugh,	.. .. ..	B.A. 1889.
b Hinds, William R. G.,	.. ..	M.D. 1863.
e Hoctor, William F.,	.. ..	B.A. 1866; M.A. 1882.
Hogg, T. Simpson,	.. ..	B.A. 1883.
Holland, John J.,	.. ..	M.D., M.CH., Dip. Obs. 1872.
Holmes, Arthur P.,	.. ..	M.D. 1859.
Holmes, Robert A. K.,	.. ..	B.A. 1866; M.D. 1870; M.A. 1882.
a Hooper, Charles J.,	.. ..	B.A. 1855; M.A. 1856; LL.B. 1858; LL.D. 1862.
Hooper, Robert,	.. .. ..	M.D. 1861.
Horkan, Peter Joseph,	.. ..	M.D., M.CH. 1884.
Houston, James D. C.,	.. ..	B.A. 1872.
a Huey, John,	.. .. ..	B.A. 1868; M.A. 1869.
Huggard, William R.,	.. ..	M.D., M.CH. 1875; B.A. 1876; M.A. 1879.
b Hughes, John H.,	.. ..	M.D. 1863.
e Hughes, Patrick J.,	.. ..	B.A. 1853; M.A. 1882.—Consular Service of China.
e Hughes, William,	.. ..	B.A. 1866; Dip. Eng., 1867; M.A., M.E. 1882.—Engineer, Public Works of India.
a Hume, George A.,	.. ..	B.A. 1878; M.A. 1879; LL.B. 1880; LL.D. 1882; B.L. (Ir.)
a Humphreys, John,	.. ..	B.A. 1890.
a Hunter, Charles W.,	.. ..	B.A. 1877; M.A. 1879.
Hunter, Charles H.,	.. ..	B.A. 1893.
c Hurley, Francis B.,	.. ..	B.A. 1856; M.D. 1860.
e Hurley, Patrick,	.. .. ..	B.A. 1862; M.A. 1882.—Civil Service of India.
e Hutchinson, James,	.. ..	M.D. 1861.
Hynes, Michael,	.. .. ..	Dip. Eng. 1859; B.E. 1882.
Hynes, Mortimer,	.. ..	M.B., B.CH., B.A.O. 1895.
Ievers, Robert W.,	.. ..	B.A. 1870; M.A. 1882.—Ceylon Civil Service, First Place.
Ireland, Arthur J.,	.. ..	M.D. 1861.
Irwin, Albert J.,	.. ..	B.A. 1888.
Jackson, Burton,	.. .. ..	B.A. 1858; M.D. 1862.
Jackson, Mark,	.. .. ..	M.D. 1882.
Jackson, Joseph Brown,	.. ..	M.D., M.CH., 1883.
a Jackson, William J.,	.. ..	B.A. 1880; M.A. 1882.

a With First Honours.
b Army Medical Service.
c Naval Medscal Service.
e With Second Honours.

James, Arthur, ... B.A. 1879.
Jaquet, J. Lewis, ... M.D. 1881.
b Jenings, Ulick A., ... M.D., M.CH. 1865.
Jennings, Michael, ... M.D., 1881; M.CH. 1885.
Johnson, Alexander M., .. M.D., M.CH. 1883.
Johnson, Samuel, ... M.D., M.CH. 1870.
Johnson, Samuel W., ... M.D. 1881.
a Johnston, James, ... B.A. 1895.—Civil Service of India (Third Place.)
c Johnston, J. Wesley, ... B.A. 1854; M.A. 1882.
Johnston, William, ... B.A. 1852; M.A. 1882.
Johnston, William M., ... B.A. 1866; M.A. 1868.
c Jones, James, ... B.A. 1894; M.A. 1895.
c Jordan, Michael J., ... B.A. 1886.
Jordan, William, ... B.A. 1881; M.A. 1882.
Joyce, Patrick K., ... B.A. 1872; M.B., B.CH., B.A.O 1893.—Head Master, Royal School, Banagher.
b Joynt, Christopher, ... M.D. 1855.
b Joynt, E. Hearne, ... M.D., M.CH. 1870.

Kane, John, ... B.A. 1866.
a Kane, Thomas, ... B.A. 1891.
a Keane, C. Marcett, ... B.A. 1853; Dip. El. Law, 1865
Kearney, Daniel, ... B.A. 1854.
c Keating, William H., ... B.A. 1882; M.A. 1883.
c Keegan, David M., ... B.A. 1894.
c Keegan, James M., ... B.A. 1886; M.A. 1887; M.B., B.CH., B.A.O. 1890.
c Keenan, John F., ... B.A. 1892; Demonstrator of Chemistry, Queen's College, Galway.
Keers, James, ... B.A. 1886.
a Kelly, Michael, ... B.A. 1874; M.A. 1876; M.D. 1882; M.CH., Dip. Obs. 1883.
Kelly, Patrick J., ... M.D. 1857.
Kennedy, John, ... M.D., M.CH., Dip. Obs. 1881.
a Kennedy, William, ... B.A. 1888; M.A. 1890.—University Student R.U.I., B.A. (Gold Medal in Classics), T.C.D. 1893.
Kenny, John D., ... M.D., M.CH. 1884.
Keogh, Alfred H., ... M.D., M.CH., Dip. Obs. 1878; M.A.O. 1892.
Kernaghan, Thomas W., .. B.A. 1896.
c Kerr, Æneas, ... B.A. 1876; M.A.1882.
a Killen, James B., ... B.A. 1863; M.A. 1868; LL.B. 1868. —B.L. (Ir.)
a Killen, John M., ... B.A. 1866; M.D. 1870.

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a With First Honours.
b Army Medical Service.
c With Second Honours.

King, Ælian A., ...	B.A. 1862; M.A. 1882.—District Judge, Ceylon.
King, William, ...	B.A. 1853; D.SC. *Honoris causa*, 1882.—Staff of Indian Geological Survey.
Kingston, William Y., ...	M.D., M.CH., Dip. Obs. 1873.
e Kirker, H. Fitzwalter, ...	B.A. 1881; M.A. 1882.
e Kirwan, James St. L., ...	B.A. 1893; M.B., B.CH., B.A.O. 1896.
e Kirwan, Robert J., ...	B.A. 1892; B.E. 1893.
Knight, William J. R., ...	M.D. 1881; M.CH. 1885
Lalor, James, ...	B.A. 1855.
Lavertine, Charles, ...	B.A. 1875.
Lavertine, Richard A., ...	B.E. 1876.
Lawlor, J. Stanislaus, ...	M.D., M.CH. 1877.
Lawson, J. Henry, ...	M.D. 1860.—Lecturer and Surgeon, St. Mary's Hospital, London.
Leary, Joseph W., ...	B.A. 1862.
Legate, George W., ...	B.A. 1867; M.A. 1869.
b Lestrange, Edward, ...	M.D. 1856.
e Lewis, John P., ...	B.A. 1876; M.A. 1882.—Civil Service of Ceylon.
a Lewis, W. Llewellyn, ...	B.A. 1869; M.A. 1871.
Lightbody, Robert, ...	Dip. Eng. 1864; B.E. 1882.
e Livingstone, John L., ...	M.B., M.CH., M.A.O. 1886.
Loane, Thomas, ...	M.D., M.CH. 1874.
Loftus, Joseph J., ...	M.B., B.CH., B.A.O. 1889.
Longworth, Peter, ...	M.D. 1868.
Lough, William J., ...	B.A. 1867.
Love, George C., ...	B.A. 1876; M.A. 1877.
b Love, Robert L., ...	B.A. 1876; M.D., M.CH. 1877.
e Lowe, William J., ...	B.A. 1880; M.A. 1881.
Lundy, Joseph, ...	B.A. 1892.
Lupton, Henry, ...	M.D. 1864; M.CH. 1866.
Lyden, Michael J., ...	M.D., M.CH. 1877.
e Lynam, Edward W., ...	B.E. 1878.; M.E. 1882; Inspector of Board of Works (Ireland).
e Lynam, James, ...	B.A. 1859; M.A. 1882.
a Lynam, James, ...	B.A. 1872; M.A. 1882.
e Lynam, Joseph D., ...	B.A. 1881; M.A. 1882.—F.R.C. PRE. Lond.; Inspector of National Schools, Ireland, (December, 1893).
a Lynam, Patrick, ...	B.E. 1872; M.E. 1882.—First Place Civil Service of Ceylon; County Surveyor of Louth.

a With First Honours.
b Army Medical Service.
e With Second Honours.

e Lynam, William P., ...	Dip. Eng, 1866; B.E. 1880; M.E. 1882.—Engineer, Public Works of India.
a Lynam, Francis J., ...	B.E. 1884.—County Surveyor of North Tyrone, (Nov., 1895).
a Lynham, John I., ...	M.D., M.CH. 1875.—F.R.U.I.; Professor of Medicine, Queen's College, Galway.
e Lyons, Frederick W., ...	B.A. 1896.—Inspector, Imperial Chinese Customs, Swatow.
Lyons, Robert W. S., ...	M.D., M.CH. 1881; Dip. Obs., M.A.O. 1888.
Macartney, James, ...	M.D. 1865.
e Macaulay, Colman P., ...	B.A. 1867; M.A. 1868.—Civil Service of India; Financial Secretary, Government of Bengal.
c Macauley, Charles A., ...	M.D., M.CH., Dip. Obs. 1872.
e Macauley, Roger, ...	M.D. 1873.
a MacDonnell, Sir Anthony P., ..	B.A. 1864; M.A. 1873; D. LIT. *Honoris causa.*—Civil Service of India; K.C.S.I.; Member of Council of the Viceroy of India; Lieut.-Governor of the North-West Provinces and Oudh.
MacFeeters, William E., ...	M.D., M.CH. 1886.
Macnamara, John Maurice, ..	B.A. 1879; M.B., M.CH. 1887.
ad Macnamara, Robert J., ...	M.D., M.CH. 1884.
Madden, Henry M., ...	M.D. 1868; M.CH. 1870.
Madden, Henry J., ...	M.D. 1865.
Madden, Thomas P., ...	M.D., M.CH. 1879.
Madill, Thomas, ...	B.A. 1861; LL.B. 1878; LL.D. 1879.
Maguire, Connor J. O'L. ...	M.D., M.CH., Dip. Obs. 1882; M.A.O. 1892.
e Maguire, Edward, ...	B.A. 1854; M.A. 1882.
e Maguire, Thomas M., ...	B.A. 1867; M.A. 1870; LL.D. 1874; B.L. (Eng.)
Maguire, Joseph P., ...	M.B., B.CH., B.A.O. 1895.
Maher, Newenham E., ...	M.D. 1866.
a Mahon, John S., ...	B.A. 1891; M.A. 1892; Inspector of Schools, First Place.
Mahon, Ralph B., ...	M.B., M.CH. 1885.
Mahon, William, ...	B.A. 1883; M.A. 1884.
a Mahony, John, ...	B.A. 1854; M.A. 1882.
e Mallagh, Joseph	B.A., B.E. 1896.
e Mangan, Denis, ...	B.A. 1890; Inspector of National Schools, Ireland.

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a With First Honours. *d* Indian Medical Service.
c Naval Medical Service. *e* With Second Honours.

a	Mapother, Edward D., ...	M.D. 1857.—Late Professor of Anatomy and Physiology, Royal College of Surgeons, Ireland, &c. &c.
	Marks, C. Ferdinand, ...	M.D. 1874.
	Marks, Edward G. K., ...	M.D., M.CH. 1876.
e	Marshall, John, ...	B.A. 1867; M.A. 1869; M.D., M.CH. 1870.
	Martin, James H., ...	B.E. 1868; M.E. 1882.—Surveyorship, Demerara.
	Martin, John, ...	M.D., Dip. Obs. 1879; M.CH. 1880.
	Martin, John W., ...	M.D., M.CH. 1868.
a b	Martin, William T., ...	B.A. 1859; M.D. 1862; M.A. 1882.
	Maunsell, Charles A., ...	M.D. 1862.
	Maxwell, Sydney L., ...	B.A. 1883.
e	Maxwell, William H., ...	B.A., 1872; M.A. 1874.
	May, William G., ...	B.A. 1859.
e	Maybin, Hugh, ...	B.A. 1896.
a	Maybin, W., ...	B.A. 1873; M.A. 1882.—Principal of Belfast Academy.
a	Maybury, Lysander, ...	M.D., M.CH., Dip. Obs. 1878.
	Maybury, William A., ...	M.D., M.CH. 1871; Dip. Obs. 1872.
	M'Afee, Alexander, ...	B.A. 1887.
	M'Afee, William, ...	M.D., M.CH., Dip. Obs. 1876.
	M'Aleer, John, ...	M.D., M.CH. 1885; B.A.O. 1888.
	M'Askie, William J., ...	B.A. 1890.
a	M'Auliffe, Michael, ...	B.A. 1860; M.A. 1882.
	M'Auliffe, Thomas B., ...	M.D., M.CH. 1868.
	M'Bride, John B., ...	B.A. 1856.
	M'Call, Robert A., ...	B.A. 1867; M.A. 1868; LL.D. *Honoris causa*, 1882.—Q.C.(Eng.); Bencher of the Middle Temple.
b	M'Carthy, David J., ...	M.D. 1862; M.CH. 1875.
b	M'Carthy, James, ...	M.D., M.CH. 1871.
	M'Cay, Daniel, ...	B.E., 1893.
a	M'Cay, Francis, ...	B.A. 1889; B.E. 1890.
a	M'Clelland, John A., ...	B.A. 1892.—Special Prize at Degree M.A. 1893. Elected to Science Research Scholarship by H. M. Exhibition (1851) Commissioners, 1894; Junior Fellowship in Natural Philosophy, R.U.I., 1895; Research Degree, Cambridge, 1898.
b	M'Conaghey, John, ...	M.D., M.CH. 1871.

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a With First Honours. *e* With Second Honours.
b Army Medical Service.

M'Conaghy, William, ... M.D. 1869.
M'Connell, Edward, ... M.D. 1881; M.CH. 1882.
M'Connell, Thomas S., ... M.D. 1881; M.CH. 1882.
M'Cormick, John J., ... M.D., Dip. Obs. 1879; M.CH. 1882.
M'Cormick, Henry, ... M.D., Dip. Obs. 1879.
M'Corry, Peter, ... M.D. 1861.
e M'Cosh, John, ... B.A. 1876; M.A. 1881.
M'Crea, Samuel, ... M.D. 1864.
M'Cully, William J., ... B.A. 1866.
a M'Cune, Thomas H., ... B.A. 1883; M.A. 1884.
c M'Dermott, B. P. Sarsfield, .. B.A., M.D., M.CH. 1878.
e M'Dermott, Cornelius, ... B.A. 1878; M.A., M.D., M.CH. 1882.
e M'Dermott, Dominick L., .. B.A. 1853; M.A. 1882.—War Office.
e M'Donagh, Redmond, ... B.A. 1882; M.A. 1883.
M'Donagh, Thomas J., ... B.A. 1894.
d M'Donnell, James O'M., .. M.D., M.CH. 1869.
c M'Donnell, Joseph R., ... M.D. 1881; M.CH. 1882.
M'Donnell, Mark A., ... M.D., M.CH., Dip. Obs. 1876.—M.P.
M'Dowell, Thomas H., ... B.A. 1879.
M'Elfatrick, Thomas A., .. B.A. 1896.
e M'Elney, Robert, ... B.A. 1884; M.A. 1887.
M'Elrea, William, ... B.E. 1879.
M'Elwaine, Robert, ... M.D. 1883; M.CH. 1884.
ce M'Elwee, John, ... B.A. 1884; M.D., M.CH. 1887
M'Farland, Beattie, ... M.D. 1881; M.CH. 1883.
e M'Farlane, Hugh, ... B.A. 1878; M.A. 1879.
a M'Farlane, Robert A., ... B.A. 1867; M.A. 1869.
M'Gennis, John, ... M.D., B.CH., B.A.O. 1890.
M'Gloin, Patrick F., ... M.D. 1863; M.CH. 1865.
M'Granahan, James, ... B.A. 1882.
M'Granahan, William, ... B.A. 1876.
e MacGregor, William, ... B.A. 1893; M.A. 1894; LL.B. 1897.
M'Ilroy, John, ... M.D., B.A.O. 1883.
M'Ilveen, John, ... B.A. 1868.
M'Ilwaine, Robert, ... B.A. 1893; M.A. 1894; LL.B. 1895; Assistant Magistrate, Salisbury, British South Africa.
a M'Kane, John, ... B.A. 1860; M.A. 1862.—Late Barrington Lecturer, Professor of English Law, Queen's College, Belfast; B.L. (Ir.)
e M'Kee, William J., ... B.A. 1887.
M'Kelvey, Thomas, ... M.B., B.CH., B.A.O. 1898.
M'Kenzie, John, ... B.A. 1865; M.A. 1871.

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a With First Honours.
c Naval Medical Service.
d Indian Medical Service.
e With Second Honours.

	M'Kinlay, John, ...	.. M.D., Dip. Obs. 1878; M.CH. 1879.
	M'Kinley, David, ..	.. B.A., 1896; B.E. 1898.
	M'Kinney, Hugh G., ..	.. Dip. Eng. 1867; M.E. 1882.—Engineer, Public Works of India.
e	M'Kinney, Samuel B. G.,	.. B.A. 1870; M.A. 1882.
a	M'Laren, James B., ..	.. B.A. 1881; M.A. 1882.
	M'Laughlin, John, ..	.. M.D. 1880.
	M'Lean, Robert J., ..	.. B.A. 1898.
e	M'Loughlin, Francis, ..	.. M.D. 1881.
e	M'Mahon, George Y., ..	.. B.A., Dip. El. Law, 1852; M.A. 1860. — Late Professor of Modern Languages, Royal College, Mauritius.
ee	M'Mahon, William, ..	.. M.D, 1862.
	M'Manus, Leonard S., ..	.. M.D., M.CH. 1882.
	M'Millan, Hugh, ..	.. M.D., M.CH., Dip. Obs. 1873.
	M'Millan, John, ...	.. B.A. 1875.
	M'Mordie, Elijah, ..	.. B.A. 1873; M.A. 1874.
b	M'Nally, Christopher J.,	.. M.D., M.CH. 1871.
e	M'Namara, John W., ..	.. B.A. 1873; M.D. 1879.
	M'Namara, Joseph C., ..	.. B.A. 1874.—Inspector of National Schools.
d	M'Namara, William J. U.,	.. B.A. 1875; M.D., M.CH. 1878; M.A. 1880.—Ind. Med. Serv., First Place; Demonstrator, Queen's College, Galway.
	M'Neill, John R., ..	.. M.D., M.CH. 1881.
	M'Quaid, Peter J., ..	.. M.D., M.CH. 1872.
	M'Sherry, Edward H., ..	.. M.D., M.CH., M.A.O. 1886.
	M'Swinney, George H.,	.. M.D., M.CH. 1871.
a	M'Swinney, Robert F.,	.. B.A. 1866; M.A. 1868; LL.B. 1870; LL.D. 1882.—First Law Studentship, Inns of Court, London, 1871; B,L. (Eng.)
	M'Vittie, R. Blake, ..	.. M.D. 1876.
	Megarry, James, ...	.. B.A. 1872.
	Megaw, Robert T., ..	.. B.A. 1877; LL.B. 1885; LL.D. 1887.
	Meharry, John B., ..	.. B.A. 1868.
	Millea, William C., ..	.. B.A. 1891.
	Millar, William J., ..	.. B.A. 1881; M.A. 1882; LL.B. 1887. —Inspector of Constabulary.
	Milligan, William, ..	.. M.D., M.CH., M.A.O. 1886.
	Mills, John A., ...	.. B.A. 1897.
	Mills, Samuel, ...	.. B.A. 1862.
e	Mills, William S., ..	.. B.A. 1898.
e	Milward, Edwin O., ..	.. B.A. 1873; M.A. 1875.
	Minniken, John, ...	.. B.A. 1877.

a With First Honours.
b Army Medical Service.
c Naval Medical Service.
d Indian Medical Service.
e With Second Honours.

Mitchell, Andrew A., ... M.D. 1879; M.CH. 1891.
Mitchell, Campbell M., ... M.D., M.CH. 1883.
Mitchell, Charles A. P., .. M.D., M.CH., Dip. Obs. 1879.
e Mitchell, Robert, ... B.A. 1871; M.A. 1882.
Mitchell, Robert, ... M.D., M.CH. 1879.
a Mitchell, Robert J., ... B.A. 1854; M.A. 1860; D. LIT. *Honoris causa*.—Late Inspector of National Schools; Inspector, Registrar General's Office, Ireland.
Mitchell, W. J., ... M.D. 1883.
Moffett, Samuel, ... B.A. 1867.
e Molloy, Mark, ... B.A. 1881; M.A., LL.B. 1882; LL.D. 1883.
Molony, Henry G., ... B.A. 1873; M.D., M.CH. 1876.
Molony, John, ... B.A. 1874.
e Molony, John S., ... B.A. 1874; B.E. 1877; M.E. 1882.
Molony, Timothy, ... M.D., M.CH. 1872.
a Monroe, John, ... B.A. 1857; M.A. 1859; LL.B. 1862; LL.D. 1882.—Studentship, Inns of Court, London; Judge of High Court of Ireland.
a Monroe, Samuel H., ... B.A. 1873; M.A. 1882.
e Montgomery, Alexander W., .. B.A. 1895; M.B., B.CH., B.A.O. 1897.
Moody, John, ... B.A. 1882.
Moody, Samuel, ... B.A. 1863.
Moody, William, ... B.A. 1887; M.B., B.CH., B.A.O. 1893.
e Moon, Frederick W., ... B.E. 1897.
Moon, James R., ... B.E. 1870.
Moon, Robert A., ... B.E. 1890.
a Moore, John H., ... B.A. 1858; M.D. 1861; M.A. 1882.
Moore, William D., ... M.D., M.CH. 1880.
a Moorhead, William R., .. B.A. 1865; M.A. 1866; M.D. 1869.
a d Moorhead, James, ... B.A. 1871; M.A. 1872; M.D. 1875.—First Place Indian Medical Service.
a Moorhead, John, ... B.A. 1855; M.D. 1856; M.A. 1857.
a Moorhead, John R., ... B.A. 1881; LL.B. 1886.
a Moran, John, ... B.A. 1870; M.A. 1872; LL.B. 1878; LL.D. 1879.—Inspector of National Schools.
e Moran, John, ... B.A. 1891; B.E. 1898.
Moran, Michael, ... M.B., B.CH., B.A.O. 1897.
Morris, Arthur E., ... M.D., M.CH. 1883.

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a With First Honours. *e* With Second Class Honours.
d Indian Medical Service.

c Morris, John James,	.. ..	M.D., Dip. Obs. 1873; M.CH. 1874.
Morris, Michael O'K.,	.. ..	B.A. 1854; M.D. 1857; M.CH. 1865.
Morrow, Henry W.,	.. ..	B.A. 1881; M.A. 1882.
Morton, David, ..	.. ..	B.A. 1887.
Morton, John H.,	.. ..	B.A. 1881.
Moylan, Hannah A.,	.. ..	B.SC. 1896.
Moylan, Michael J.,	.. ..	B.A. 1873.
Moynan, Joseph, ..	.. ..	B.E. 1881.
Moynan, Richard M.,	.. ..	M.D., M.CH. 1882.
Moynan, William A.,	.. ..	M.D., M.CH. 1881.
b Moynan, W. E. Bonsall,	..	M.D., M.CH., Dip. Obs. 1872.
c Mulholland, William,	.. ..	B.A. 1863; M.A. 1882.—Barrington Lecturer; Q.C. (Eng.)
a Mullally, Michael,	.. ..	B.A. 1871; M.A. 1873.—Inspector of National Schools.
Mullally, William T.,	.. ..	M.D., M.CH. 1880.
c Mullen, Douglas,	.. ..	M.D. 1872; M.CH., Dip. Obs. 1873.
b Mullen, Jarlath J.,	.. ..	M.D., M.CH., Dip. Obs. 1873.
Mullen, St. Laurence,	.. ..	M.D., M.CH. 1868.
b Mullen, Thomas F.,	.. ..	M.D. 1864; M.CH. 1865.
a Mulligan, James,	.. ..	B.A. 1869; M.A. 1871; B.L. (Eng.), Head Bencher of Gray's Inn.
c Mullin, James, ..	.. ..	B.A. 1874; M.D., M.CH., Dip. Obs. 1880; M.A. 1882.
Mullin, John F. L.,	.. ..	M.D. 1880; M.CH. 1881.
c Munro, William H.,	.. ..	B.A. 1880; M.A. 1882; M.D., M.CH. 1885.
Murphy, Michael E.,	.. ..	M.D. 1868.
Murray, Charles F. K.,	.. ..	M.D. 1868; M.CH. 1884.
Murray, G. Stanley,	.. ..	M.D., M.CH. 1875.
Neilson, Robert A.,	.. ..	M.B., B.CH., B.A.O. 1898.
a Nelson, Thomas E.,	.. ..	B.A. 1880; M.A. 1881; LL.B. 1884; LL.D. 1886.
Newell, Peter, ..	.. ..	B.A. 1882.—Inspector of National Schools.
Nicholls, John W.,	.. ..	M.D., M.CH., Dip. Obs. 1873.
Nicholson, George F.,	.. ..	M.D. 1875.
d Nightingale, Walter H.,	..	B.E. 1880; M.E. 1882.
Nixon, John C., ..	.. ..	B.A. 1893; M.B., B.CH., B.A.O. 1895.
Norris, Patrick J.,	.. ..	M.D. 1869.
Norton, Bernard G.,	.. ..	B.A. 1860.—Late Judge of Superior Court, British Guiana.
O'Brien, Daniel, ..	.. ..	M.D., M.CH. 1869.
O'Brien, Michael,	.. ..	M.D. 1875.

a With First Honours. *c* Indian Medical Service.
b Army Medical Service. *d* Engineer, Public Works of India.
e With Second Class Honours.

O'Brien, Thomas M., ... M.D., M.CH., 1877; Dip. Obs. 1879.
b O'Connell, David V., ... M.D., Dip. Obs. 1881; M.CH. 1882; M.A.O. 1893.
a O'Connor, George, ... B.A. 1874; M.A. 1875.
O'Connor, Patrick, ... M.D., M.CH. 1877.
O'Connor, P. Fenelon, ... B.A. 1871; M.D., M.CH., Dip. Obs. 1874.
e O'Connor, Thomas P., ... B.A. 1866; M.A. 1873.—M.P.
O'Dea, Martin, ... M.B., B.CH., B.A.O., 1893.
d Odling, Charles W., ... Dip. Eng. 1865; M.E. 1882.
O'Donel, Claudius, ... M.D. 1883.
O'Donnell, Charles J., ... B.A. 1868; M.A. 1870.—Civil Service of India.
a O'Donnell, Francis, ... B.A. 1865; M.A. 1868.—Late M.P.
be O'Farrell, Thomas, ... B.A. 1861; M.A. 1863; M.D. 1864.
a O'Feely, Timothy O'B., .. B.A. 1856; LL.B. 1857; LL.D. 1860.
a c O'Flaherty, Thomas A., .. M.D. 1859.
O'Gorman, Patrick, ... M.D. 1882; M.CH. 1883.
a O'Hara, Charles, ... Dip. Agric. 1855; B.A. 1860; M.D. 1865; M.A. 1882.
O'Hara, Robert F., ... B.A. 1873; B.L. (Ir.)
e O'Hara, Thomas, ... Dip. Agric. 1852; B.A. 1860; M.A. 1882.—Inspector of National Schools.
O'Kelly, Thomas, ... M.D. 1879.
a O'Kinealy, James, ... B.A. 1858; M.A. 1882; LL.D. *Honoris Causa.*—Civil Service of India.
a O'Kinealy, Michael, ... Dip. Eng. 1855; M.E. 1882.
a O'Kinealy, Peter, ... B.A. 1874; M.A. 1875; LL.B. 1875; LL.D. 1882; B.L. (Eng.)
O'Malley, David J., ... M.D., M.CH. 1881.
a O'Neill, George F., ... B.A. 1858; M.A. 1862.—Inspector of National Schools.
O'Neill, Peter J., ... B.A. 1872; B.L. (Ir.)
a Oram, John E., ... B.E. 1868; M.E. 1882.—Late Prof. Univer., Windsor, Nova Scotia; Librarian and Chief Clerk Royal University of Ireland.
O'Reilly, Myles W., ... M.D., Dip. Obs. 1879; M.CH. 1880.
O'Reilly, Walter W. J., .. M.D. 1870; M.CH. 1871.
b O'Reilly, Henry W. H., .. M.B., B.CH., B.A.O. 1891.
c O'Shaughnessy, Michael M., .. B.E., 1884.
b O'Sullivan, Patrick J., ... M.D., M.CH. 1875.
c O'Sullivan, Thomas, ... M.D., M.CH. 1869; Dip. Obs. 1878.

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a With First Honours. *c* Naval Medical Service.
b Army Medical Service. *d* Engineer, Public Works of India.
e With Second Class Honours.

c Padin, Thomas,	.. .. ..	B.A. 1864; M.A. 1882.
b Palmer, Dean P.,	.. ..	M.D. 1864.
Parker, James D.,	.. ..	B.A. 1854; Dip. El. Law, 1855; LL.B. 1857; LL.D. 1864.
d Parker, Joseph,	.. .. ..	M.D., M.CH. 1874.
Parry, Edward J.,	.. ..	M.D. 1881.
Patterson, Samuel,	.. ..	B.A. 1881.
c Paul, John,	.. .. ..	B.A. 1890.
Pearson, James D.,	.. ..	B.A. 1897; B.E. 1898.
Peterson, Richard A.,	.. ..	M.D. 1868.
Pierse, Gerard J.,	.. ..	M.D., B.CH., B.A.O. 1889.
Pillow, Henry,	.. .. ..	M.D., M.CH. 1886.
Potter, Robert,	.. .. ..	M.D. 1862.
Powell, George H.,	.. ..	M.D., M.CH., Dip. Obs. 1881.
Pritchard, Thomas,	.. ..	M.D. 1880; M.CH. 1883.
Purcell, Matthew,	.. ..	M.B., M.CH. 1887.
b Purefoy, John W.,	.. ..	M.D. 1864.
a Pye, Joseph P.,	.. .. ..	M.D., M.CH. 1871; D.SC. *Honoris Causa* 1882.—F.R.U.I.; Professor of Anatomy and Physiology, Queen's College, Galway.
Quinn, Martin,	.. .. ..	B.A. 1863.
Quinton, John H.,	.. ..	B.A. 1871; B.E. 1872.
Quirk, Martin,	.. .. ..	M.D., M.CH., Dip. Obs. 1875.
Raddin, George H.,	.. ..	B.A., B.E. 1892.
Rankin, William J.,	.. ..	M.D. 1865.
c Rathborne, Charles A.,	.. ..	M.D., M.CH. 1870.
b Raye, Daniel O'C.,	.. ..	M.D. 1865.
Read, Richard,	.. .. ..	M.D., M.CH. 1872.
Reade, Hector M.,	.. ..	B.A. 1877.
a Reed, Sir Andrew,	.. ..	B.A. 1859; LL.B. 1877; LL.D. 1878; M.A. 1882.—Knt. C.B.; Inspector-General, R.I.C.
c Reed, Matthew,	.. .. ..	M.D., M.CH. 1870.
b Reid, Robert,	.. .. ..	B.A. 1854.
c Reid, William Joseph,	.. ..	B.A. 1861; M.A. 1882.
Reidy, Charles,	.. .. ..	B.A. 1880.
Rentoul, Robert R.,	.. ..	M.D. 1880; Direct Representative of the Registered Practitioners of England on the General Medical Council.
c Rentoul, James Alex.,	.. ..	B.A. 1869; LL.B. 1874; LL.D., 1875; Q.C. (Eng.)—M.P.
Reynolds, T. Taylor.	.. ..	M.D., M.CH. 1879.
Richardson, John H.,	.. ..	B.A. 1852.

a With First Honours. *c* Naval Medical Service.
b Army Medical Service. *d* Indian Medical Service.
c With Second Class Honours.

Riordan, Daniel, ...	M.D. 1878; Dip. Obs. 1879.
e Rishworth, Frank S., ...	B.E. 1898.
Roe, William, ...	M.D. 1868.—Professor of Midwifery, Royal College of Surgeons, Ireland, late Examiner in Q. U. Ireland.
Roseingrave, Thomas W., ..	B.E. 1881.
Ross, David R., ...	M.D., M.CH. 1875.
Ross J., Alexander, ...	M.D. 1868; M.CH. 1869.
Ross, John R., ...	B.A. 1863; M.D. 1866.
Rosten, William M., ...	M.D. 1874.
Roulston, Robert J., ...	M.D., M.CH., Dip. Obs. 1880.
Rowney, George A. H., ...	B.A. 1882; B.E. 1883.
Rusk, John, ...	B.A. 1886; M.B., B.CH., B.A.O. 1894.
Rutherford, Robert L., ...	M.D. 1881; M.CH. 1882.
Rutherford, William, ...	M.D., M.CH. 1871; Dip. Obs. 187 M.A.O. 1885.
Rutledge, Andrew, ...	B.A. 1892.
Rutledge, John G., ...	B.A. 1893; M.A. 1894.
e Ryan, Dominick D., ...	B.A. 1852; M.A. 1882.
a Ryan, Hugh, ...	B.A. 1895; M.A. 1897. Awarded a Gold Medal for highly distinguished answering; Demonstrator of Chemistry, Queen's College, Galway; elected to Science Research Scholarship by H. M. Exhibition (1851) Commissioners, 1898.
Ryan, John, ...	M.D., M.CH., M.A.O. 1885.
Ryan, John, ...	B.A., B.E. 1893.
Saunderson, James E., ...	B.A. 1862; M.D., M.CH. 1866.
Saunderson, Robert, ...	M.D. 1870.
b Saunderson, William H., ..	B.A. 1863; M.A. 1864.
Scott, Frederick S., ...	M.B., B.CH., B.A.O. 1898.
Semple, Martin, ...	M.B., M.CH. 1888.
a Semple, Robert J., ...	B.A. 1888; M.A. 1889, *Royal University Student.*
Semple, Samuel, ...	B.A. 1881; M.A. 1882.
Sexton, William, ...	M.D., M.CH., M.A.O. 1885.
Shannon, Owen J., ...	B.A. 1883; M.A. 1889.
Shannon, Patrick J., ...	M.D. 1864; M.CH. 1865.
a Sharkey, Edmund de la Garde, ..	B.A. 1863; M.A. 1866.—Civil Service of India.
b Sharpe, William, ...	M.D. 1866; M.CH. 1868.
b Shaw, John A., ...	M.D. 1863.
a Shiel, Joseph R., ...	B.A. 1871; M.A. 1873; LL.B. 1874; LL.D. 1882.
Shine, Eugene, ...	B.A. 1879.

a With First Honours.
b Army Medical Service.
e With Second Honours.

*ad*Shore, Robert	B.A. 1875; M.A. 1877; M.D. 1880.
Sigerson, George	M.D. 1859; M.CH. 1865—F.R.U.I., Professor of Botany and Zoology, Catholic Univ. Medical School.
Simms, John M., ...	B.A. 1879.
Simpson, William, ...	M.D. 1872; M.CH., Dip. Obs. 1873.
Skilling, Thomas, ...	Dip. Agric. 1852 — Director of Model Farm, Royal Park, Melbourne.
Sloan, John, ...	M.B., B.CH., B.A.O. 1898.
Sloane, George, ...	B.A. 1883.
*d*Smith, Henry, ...	B.A. 1883; M.D., M.CH., M.A.O. 1888.
Smith, Joseph, ...	B.A. 1884; LL.B. 1887.
*e*Smith, J. Anderson, ...	B.A. 1853; M.A. 1882.
Smith, Robert J., ...	B.A. 1861.
Smithwick, Richard H., ..	B.E. 1879.
*e*Smylie, Archibald, ...	B.A. 1864; M.A. 1874; LL.B. 1877; LL.D. 1877; B.L. (Australia).
Smyth, John, ...	M.D., M.CH. 1879.
Smyth, Thomas C., ...	B.A. 1880; M.A. 1882.
Smith, William J., ...	B.A. 1865; M.D. 1872; M.A. 1882.
Somerville, Richard N., ..	B.A. 1871; B.E. 1873. — County Surveyor, Cavan.
Spence, J. Beveridge, ...	M.D., M.CH. 1869.
Spencer, William F., ...	M.D., M.CH, 1872.
Steen, James R., ...	M.B., B.CH., B.A.O. 1890.—Travelling Medical Scholar, Royal University of Ireland, 1890.
Stephens, William, ...	M.D. 1866.
Stewart, Joseph, ...	M.B., M.CH., M.A.O. 1887.—Travelling Medical Scholar, Royal University of Ireland, 1889; Demonstrator of Anatomy, Queen's College, Galway.
Stewart, Robert F., ...	B.A. 1861.
Stewart, Washington S., ..	B.A. 1866.
Stoker, Sir Thornley, ...	M.D. 1666; M.CH. *Honoris Causa* 1895.—Surgeon, Richmond Hospital; F.R.U.I; late Prof. of Practical Anatomy, R.C.S., Ireland; President, R.C.S.I.
Stokes, William, ...	M.D. 1878; M.CH., Dip. Obs. 1880.
*a*Stoney, Edward W., ...	Dip. Eng. 1863; B.E. 1872; M.E. 1882.
Stoney, John H. L., ...	M.D. 1861.—Late Surgeon, City of Dublin Hospital; late Demonstrator, Royal College of Surgeons, Dublin.

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a With First Honours. *d* Indian Medical Service.
e With Second Class Honours.

Strain, James K. C., ... B.A. 1896.
Stratford, John, ... B.E. 1881.
Stuart, James, ... B.A. 1895.
Stuart, Simson, ... M.D. 1880; M.CH. 1883.
*a*Stuart, Thomas, ... B.A. 1895; M.A. 1896; Demonstrator of Physics, Queen's College, Galway.
Sugars, John C., ... M.D., M.CH. 1868.
Sullivan, John, ... B.A. 1878.

Talbot, Bertram H., ... B.A. 1869.
Tate, Davis D., ... M.D. 1868.
Tatham, Garnett G., ... M.D. 1877.
Taylor, William J., ... M.B., B.CH., B.A.O. 1888.
Thomas, William R., ... M.D., M.CH. 1875.
*a*Thompson, Atwell, ... B.E. 1886; B.A. 1887.
Thompson, David, ... B.A. 1871.
Thompson, George, ... B.A. 1865.—Master, Doveton College, Calcutta.
Thompson, Henry G., ... M.D., M.CH. 1877.
Thompson, James, ... B.A. 1883.
*a*Thompson, William H., .. M.D., M.CH. 1883; Dip. for Mental Diseases, 1886. — Professor of Physiology, Queen's College, Belfast.
Thomson, Sir William, .. B.A. 1867; M.D., M.CH. Dip. Obs. 1872; M.A. *Honoris Causa* 1881. —Surgeon, Richmond Hospital, Examiner, R.C.S.; Member of Senate, R.U.I.; Examiner, late Queen's University, Ireland; President R.C.S.I.; Direct Repsesentative for Ireland on the General Medical Council; Surgeon in Ordinary to his Excellency the Lord Lieutenant.
Thorpe, Joseph C., ... M.D. 1864.
Threfall, Richard B., ... M.B., B.CH., B.A.O. 1898.
*a*Thynne, Henry, ... B.A. 1859; LL.B. 1873; M.A. 1882; LL.D. 1882. — C.B.; Deputy Inspector-General, R.I.C.
Tierney, Daniel, ... B.A. 1856; Dip. Eng. 1857; B.E. 1882.
*a*Todd, Andrew .. .. .. B.A. 1876; LL.B. 1879; M.A. 1882; LL.D. 1882; B.L. (Ir.).
*e*Todd, Robert H., ... B.A. 1870; M.A. 1871; LL.B. 1873; LL.D. 1875.
*a*Torrens, James, ... B.A. 1866; M.A. 1867; M.D. 1883; M.CH. 1884.

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a With First Honours. *e* With Second Honours.

e Townsend, Thomas A.,	.. ..	B.E. 1869; M.E. 1882.
Twigg, William, ..	.. ..	M.D. 1862.
Vance, George, ..	.. ..	M.D., M.CH. 1886; B.A.O. 1888.
a Vance, Robert, ..	.. ..	B.A. 1879; M.A. 1880.
Vinrace, Felix C.,	.. ..	M.D. 1881.
Wadsworth, William A.,	..	M D. 1884; B.CH. 1888.
Walker, Andrew J.,	.. ..	B.A. 1895; Demonstrator of Chemistry, Queen's College, Galway; PH.D., Heidelberg, 1898.
Walker, Cuthbert F.,	.. ..	B.A. 1897.
Walker, William,	.. ..	B.A. 1894; B.E. 1895.
Waller, Edmund W.,	.. ..	Dip. Eng. 1861; B.E. 1882.
e Walsh, Michael, ..	.. ..	B.A. 1867; M.D., M.CH., Dip. Obs. 1873.—Demonstrator of Anatomy, Queen's College, Galway.
Ward, Peter, ..	.. ..	B.A. 1867.
Warren, J. Monteith,	.. ..	M.D., M.CH. 1874.
Warren, William E.,	.. ..	B.A. 1871; M.D. 1873.
Warren, William H.,	.. ..	M.D. 1866.
e Waters, Eaton W.,	.. ..	M.B., M.CH. 1886; M.A.O. 1887.
Waters, George A.,	.. ..	M.D., M.CH. 1884.
Waters, Horace R.,	.. ..	B.E. 1885.
a Waterworth, Hugh,	.. ..	B.A. 1877; M.A. 1879.
Watson, John, ..	.. ..	B.A. 1897.
e Watt, George, ..	.. ..	B.A. 1896.
Watters, Francis O. M.,	..	B.A. 1880; M.A. 1881.
e Watters, William,	.. ..	B.A. 1877; M.A. 1882; M.D., M.CH. 1883.
Watts, Walter A.,	.. ..	B.A. 1856; M.A. 1857.—Late Prof. Training College, Toronto.
Wells, Charles, ..	.. ..	M.D. 1880.
Wenyon, Charles,	.. ..	M.D., M.CH. 1880.
West, John D., ..	.. ..	B.A. 1859.
a West, Sir Raymond,	.. ..	B.A. 1855; M.A. 1869; LL.D. *Honoris causa*, 1882.—Judge of the High Court of Bombay: Vice-Chancellor, University of Bombay; Member of the Council of the Government of Bombay.
White, James F.,	.. ..	M.D. 1880; M.CH., Dip. Obs. 1881.
White, Michael, ..	.. ..	M.D., M.CH. 1878.
White, Patrick B.,	.. ..	M.D., M.CH. 1883; Dip. Obs. 1884; M.A.O. 1885.

a With First Honours
e With Second Honours.

a White, Sinclair, ...	M.D., M.CH., Dip. Obs. 1879; Lecturer on Physiology and Hygiene, Firth College, Sheffield.
c White, Thomas R., ...	M.D. 1862.
Williams, J. O'Brien, ...	M.D., M.CH. 1877.
Williams, William, ...	M.D., M.CH. 1869.
c Wilson, David, ...	B.A.; B.E. 1895.
Wilson, James, ...	M.D. 1879.
Wilson, John, ...	B.A. 1865; M.A. 1866.
b Wilson, J. Bower, ...	M.D. 1871.
c Wilson, Robertson B. S., ..	B.A. 1869; M.A. 1870.
c Wilson, Samuel L., ...	B.A. 1875; M.A. 1876.
a Wilson, Thomas N., ...	B.A. 1861; M.A. 1882.—Civil Service of India.
c Wilson, William N., ...	B.A. 1865; M.A. 1866.
c Winder, James, ...	B.A. 1865; M.A. 1882.
Wise, Charles H., ...	M.D. 1882.
Wood, George V., ...	M.D., M.CH. 1866.
c Wood, John E., ...	B.A. 1864; M.A. 1882.—Inspector of National Schools.
c Woods, Richard J., ...	B.E. 1874; M.E. 1882.—Engineer, Public Works of India.
c Zouche, Isaiah de, ...	M.D. 1865.

DIPLOMATES IN ENGINEERING.

Stuart, William, 1893.
Howley, Richard J., 1895.

a With First Honours. *b* Army Medical Service.
c With Second Honours.

DEGREES, DIPLOMAS, HONOURS, &c., OBTAINED BY STUDENTS OF THE COLLEGE AT THE EXAMINATION OF THE ROYAL UNIVERSITY OF IRELAND IN 1898.

Faculty of Arts.

STUDENTSHIP IN EXPERIMENTAL SCIENCE.

Ryan, Hugh, M.A.

SCHOLARSHIP IN MATHEMATICS.

Strain, Thomas G.

B.A. DEGREE EXAMINATION.

EXHIBITION.

Mills, William S., ... Second Class (£21)

Honours in Experimental Science.

Mills, William S., ... Second Class.

Honours in Mathematical Science.

Hallidy, Robert J., ... Second Class.

PASS.

Clarke, John A.
Curry, David S.
Hall, Arthur A.
M'Lean, Robert J.

SECOND UNIVERSITY EXAMINATION.

EXHIBITIONS

Aimers, Margaret M., ... Second Class (£18).
Clarke, Margaret, ... Second Class (£18).

Honours in French.

Clarke, Margaret, ... First Class.
Aimers, Margaret M., ... Second Class.

Honours in German.

Aimers, Margaret M., ... Second Class.

PASS.

Bodkin, Leo F.	Moore, William I.
Clements, John.	O'Grady, Henry.
Forde, Dudley.	Renshaw, John W.
Garvey, Patrick.	Richards, Henry E. S.
Hardiman, James J.	Simpson, William A.
Mann, Samuel.	Whitton, Joseph.

FIRST UNIVERSITY EXAMINATION.

EXHIBITION.

Strain, Thomas G., ... First Class (£30) (*First Place*).

Honours in Latin.

Strain, Thomas G., ... Second Class.

Honours in German.

M'Grath, Edward H., ... Second Class.

Honours in Mathematics.

Strain, Thomas G., ... First Class.

Honours in Natural Philosophy.

Strain, Thomas G., ... First Class.

PASS.

Bailey, Robert.	M'Cutcheon, William T.
Cummins, Robert J.	Mairs, William C.
Dee, James.	O'Flynn, Michael J.
Hall, John.	O'Gorman, Andrew.
Hamilton, Thomas T.	O'Malley, William G.
Kyne, Tom J.	Perry, Samuel.
M'Causland, Joseph.	Smythe, Robert H.

Faculty of Medicine.

MEDICAL DEGREES EXAMINATION—M.B., B.CH., B.A.O.

UPPER PASS.

M'Kelvey, Thomas.	Scott, Frederick S.

PASS.

Downard, Thomas, B.A.	Sloan, John.
Neilson, Robert A.	Threlfall, Richard B.

THIRD EXAMINATION IN MEDICINE.

PASS.

Forde, Michael J.
Graham, George.
Hewitt, Alfred J.
Nicholson, William.
Waters, Joseph J.

SECOND EXAMINATION IN MEDICINE.

UPPER PASS.

Sandys, William A.

PASS.

Clements, John.
Mills, John A., B.A.
Richards, Henry E. S.
Scott, Ernest F.

FIRST EXAMINATION IN MEDICINE.

EXHIBITION.

Warnock, William, ... First Class (£20).

Honours in Botany.

Warnock, William, ... Second Class.

Honours in Chemistry.

Warnock, William, ... Second Class.

Honours in Experimental Physics.

Warnock, William, ... First Class.

PASS.

Best, Robert.
Bright, William H. N.

School of Engineering.

B.E. DEGREE EXAMINATION.

EXHIBITION.

Rishworth, Frank S., ... Second Class (£21).

HONOURS.

Rishworth, Frank S., ... Second Class.

PASS.

Dowling, Patrick.
Hallidy, Robert J., B.A.
M'Kinley, David, B.A.
Moran, John, B.A.
Pearson, James D., B.A.

SECOND PROFESSIONAL EXAMINATION.

PASS.

Hall, Arthur A., B.A.
Hardiman, James J.
Whitton, Joseph.

FIRST PROFESSIONAL EXAMINATION.

PASS.

Cummins, Robert J.
Mann, Samuel.

University of Heidelberg.

PH.D. DEGREE.

Walker, Andrew J., B.A.

Indian Civil Service Examination.

Hezlett, James M., B.A.

Research Scholarship in Science,

Value £150 *per annum, for two years, given by H. M. Exhibition* (1851) *Commissioners.*

Ryan, Hugh, M.A.

Examination for County Surveyorships in Ireland.

Burkitt, James P., B.A., B.E. (First Place).

Examination for Inspectorships of National Schools, Ireland.

Mangan, Denis, B.A.

FORMER PROFESSORS AND OFFICERS.

Appointed.		Vacated.
1845.	Very Rev. J. W. Kirwan, President, . . Died,	1849
1845.	Edward Berwick, Vice-President, appointed President, ... Resigned,	1849
1849.	Thomas Drane, M.A., Professor of Civil Engineering, ... Resigned,	1849
1850.	Very Rev. J. P. O'Toole, Vice-President, Resigned,	1852
1849.	Morgan W. Crofton, B.A., Professor of Natural Philosophy, ... Resigned,	1852
	[Fellow of the Royal Society, 1868; late Professor of Mathematics, R.M. Academy, Woolwich; Fellow of the Royal University of Ireland; Author of Papers in *Philosophical Transactions*, 1868–69.]	
1849.	Patrick G. Fitzgerald, Bursar, . . . Died,	1853
1849.	John Mulcahy, LL.D., Professor of Mathematics, ... Died,	1853
	[Author of "Principles of Modern Geometry," 1852.]	
1849.	W. E. Hearn, B.A., Professor of the Greek Language, ... Resigned,	1854
	[Late Dean of the Faculty of Law in the University of Melbourne. Author of "Plutology," 1864; "The Government of England"; and "The Aryan Family."]	
1849.	William Nesbitt, M.A., Professor of the Latin Language, appointed to the Greek Professorship, ... Resigned,	1854
1849.	Cornelius Mahony, Professor of the Celtic Languages, ... Resigned,	1854
1849.	Bernard O'Flaherty, Registrar, . . Resigned,	1855
1849.	James Hardiman, Librarian, . . . Died,	1855
	[Author of "History of Galway," 1820; and of "Irish Minstrelsy or Bardic Remains of Ireland," 1831.]	

Appointed.		Vacated.
1849.	Edmond Ronalds, PH.D., Professor of Chemistry, ... Resigned,	1856
	[Editor of the Journal of the Chemical Society, joint Editor with Dr. T. Richardson of Knapp's "Chemistry in its applications to the Arts and Manufactures," 1848–1851. Author of papers:—"Ueber die Oxydation des Wachses durch Saltpeterssaure," *Liebig Ann.* 1842, and "Excretion of Phosphorus," 1853, *Phil. Trans.*]	
1853.	G. Johnstone Stoney, M.A., Professor of Natural Philsophy, appointed Secretary of the Queen's University, . . . Resigned,	1857
	[Fellow of the Royal Society, 1861; late Secretary to the Queen's University in Ireland. Author of numerous Scientific and Philosophical Papers in *Phil. Trans.*, *Trans. of Royal Dublin Society*, and *Philosophical Magazine.*]	
1849.	H. Law, B.A., Professor of English Law, Resigned,	1858
	[Solicitor-General, 1873; M.P. for Londonderry, 1874; Attorney-General, 1880; Lord Chancellor of Ireland, 1881.]	
1849.	Denis C. Heron, LL.D., Professor of Jurisprudence and Political Economy, . . Resigned,	1859
	[Serjeant-at-Law; M.P. for county of Tipperary, 1870. Author of "An Introduction to the History of Jurisprudence," 1860, and "History of the University of Dublin."]	
1849.	Wm. B. Blood, B.A., Professor of Civil Engineering, ... Resigned,	1860
	[Author of Paper on "Stresses in Girders," *Min. Proc., I.C.E.*]	
1849.	Charles Croker King, M.D., Professor of Anatomy and Physiology, . . . Resigned,	1863
	[M.R.I.A.; late Medical Commissioner, Local Government Board for Ireland. Author of numerous Papers on Anatomy and Physiology.]	
1852.	Joseph O'Leary, B.A., Vice-President, Professor of History and English Literature, . Died,	1864
	[Author of various Legal works.]	
1853.	Arthur Ireland, Bursar, ... Died,	1864
1852.	William Nesbitt, M.A., Professor of the Greek Language, ... Resigned,	1864
	[Late Professor of Latin, Queen's College, Belfast. Author of the Article, "Horae Tacitease" in *Hermathena*, Vol. III.]	

Appointed.		Vacated.
1849.	Thos. Skilling, Professor of Agriculture, .	Died, 1865
1849.	Augustus Bensbach, M.D., Professor of Modern Languages, ... [Author of "Sketch of German Literature."]	Died, 1868
1854.	Richard Blair Bagley, M.A., Professor of Latin,	Died, 1869
1859.	John E. Cairnes, M.A., Professor of Jurisprudence and Political Economy, . . [Sometime Whately Professor of Political Economy in the University of Dublin; late Professor of Political Economy in the University College, London. Author of "The Definition and Logical Method of Political Economy," 1875, 2nd Edition; "The Slave Power," 1862; Essays on Political Economy; Political Essays; Some Leading Principles of Political Economy; and of other works.]	Resigned, 1870
1853.	William Lupton, M.A., Registrar, appointed Professor of Jurisprudence and Political Economy, ...	Resigned, 1870
1849.	Simon M'Coy, Professor of Materia Medica, [Author of numerous papers on Medical and Surgical Science.]	Resigned, 1873
1849.	Richard Doherty, M.D., Professor of Midwifery, [Author of papers on Obstetric Science.]	Died, 1876
1870.	William Lupton, M.A., Professor of Jurisprudence and Political Economy, . . .	Died, 1876
1856.	John H. Richardson, B.A., Librarian, .	Resigned, 1876
1849.	Edward Berwick, B.A., President, . . .	Died, 1877
1863.	John Cleland, M.D., Fellow of the Royal Society, 1872, ... [D.SC.; LL.D.; Professor of Anatomy in the University of Glasgow. One of the Editors of the 7th Edition of Quain's "Elements of Anatomy;" Author of "Scala Naturae and other Poems," 1887; and of "Animal Physiology," "Variations of the Skull," and other important papers in the *Philosophical Transactions*.]	Resigned, 1877
1870.	Thomas W. Moffett, LL.D., Registrar, appointed President, ...	Resigned, 1877
1873.	Joseph P. Pye, M.D., M.CH., Professor of Materia Medica, ...	Resigned, 1877

Appointed.		Vacated.
1849.	Nicholas Colahan, M.D., Professor of Practice of Medicine, ... Resigned,	1879
1857.	Arthur Hill Curtis, M.A., LL.D., Professor of Natural Philosophy, ... Resigned,	1879
	[Late Assistant Commissioner of Intermediate Education; late Senator of the Royal University of Ireland. Author of Papers:—"On the Integration of Linear and Partial Differential Equations," in the *Cambridge and Dublin Mathematical Journal*, 1854; "Sur la Surface Lieu des Centres de Courbure Principaux d'une Surface Courbe," in Liouville's *Journal de Mathematiques pure et appliquées*, 1858; A Mathematical Deduction of the principal properties of the Gyroscope, Dublin, 1862; and of numerous Papers in *The Oxford, Cambridge, and Dublin Messenger of Mathematics*, *The Messenger of Mathematics*, New Series; *The Quarterly Journal of Pure and Applied Mathematics*; and *The Philosophical Magazine*.]	
1877.	Arthur Hill Curtis, M.A., LL.D., Registrar, Resigned,	1879
1869.	Thomas Maguire, LL.D., Professor of Latin, Resigned,	1880
	[Late Fellow of Trinity College Dublin, and Professor of Moral Philosophy in the University of Dublin. Author of "An Essay on the Platonic Idea," 1866; of "Essays on the Platonic Ethics"; of "Lectures on Philosophy"; and of numerous Articles in *Hermathena*, Vols. I.–VI. Editor of "The Parmenides of Plato," 1882.]	
1849.	Alexander G. Melville, M.D., D.SC., Professor of Natural History, ... Resigned,	1882
	[Joint Author of "The Dodo and its kindred," and of papers on Anatomy and kindred subjects.]	
1876.	Robert Cather Donnell, M.A., LL.D., Professor of Jurisprudence and Political Economy, . Died,	1883
	[Sometime Professor of Political Economy in the University of Dublin.]	
1849.	William King, D.SC., Professor of Mineralogy and Geology and Natural History, . Resigned,	1883
	[Author of "Monograph of Permian Fossils of England," published by the Palæontographical Society, 1850; and of "Report on the Superinduced Divisional Structure of Rocks, called Jointing, and its Relation to	

Appointed.		Vacated.
	Slaty Cleavage," *Transactions of the Royal Irish Academy* Vol. XXV., 1875, and of numerous Papers in the *Annals of Natural History*, and in other Scientific Journals. Also Author in conjunction with Dr. T. H. Rowney of a Paper on "Eozoon Canadense" in the *Quarterly Journal of the Geological Society*, and of other Papers on the same subject in various Scientific Journals.]	
1880.	Joseph Larmor, M.A., D.SC., Professor of Natural Philosophy, ...	Resigned, 1885
	[Fellow of the Royal Society, 1892; late Fellow of the Royal University of Ireland; Fellow of St. John's College, Cambridge. Author of various Papers in the *Proceedings of the Cambridge Philsophical Society; Philosophical Transactions of the Royal Society; Proceedings of the London Mathematical Society; The Quarterly Journal of Pure and Applied Mathematics; The Messenger of Mathematics*, New Series; *The Philosophical Magazine.*]	
1868.	Charles Giesler, PH.D., D.LIT., Professor of Modern Languages, ...	Died, 1886
	[Late Fellow of the Royal University of Ireland.]	
1849.	James V. Browne, M.D., Professor of Surgery,	Died, 1887
1880.	John Fletcher Davies, M.A., D.LIT., Professor of Latin, ...	Died, 1889
	[Late Fellow of the Royal University of Ireland. Editor of "The Agamemnon, The Choephoroe, and The Eumenides of Æschylus." Author of several Articles in *Hermathena*, contributed largely to *Kottabos* and *Dublin Translations.*]	
1856.	Thomas H. Rowney, PH.D., D.SC., Professor of Chemistry, ...	Resigned, 1889
	[Author of numerous memoirs in Organic Chemistry, especially on the Fatty Acids and their Amides, *Journal of the Chemical Society*; and in conjunction with Dr. Wm. King of a Paper on "Eozoon Canadense" in the *Quarterly Journal of the Geological Society*, and of other Papers in various Scientific Journals.]	
1889.	Augustus E. Dixon, M.D., Professor of Chemistry, ...	Resigned, 1891
	[Professor of Chemistry, Queen's College, Cork. Author of Papers on Organic Chemistry in the *Journal of the Chemical Society.*]	

Appointed.		Vacated.
1853.	George Johnston Allman, LL.D., D.SC., Professor of Mathematics, Senator of the Royal University of Ireland, Fellow of the Royal Society, 1894, ...	Resigned, 1893
	[Member of the Senate of the Queen's University in Ireland, 1877. Editor of the Lectures of Professor MacCullagh on "The Attraction of Ellipsoids," *Transactions of the Royal Irish Academy*, Vol. XXII., 1853. Author of a Paper, "On Some properties of the Paraboloids," *The Quarterly Journal of Pure and Applied Mathematics*, 1874; of Articles on "Greek Geometry from Thales to Eucild" in *Hermathena*, Vols. III.–VI., 1878–1887, subsequently published as a Volume of the Dublin University Press Series, 1889; also of "Ptolemy (Claudius Ptolemaeus)" and other Articles in the 9th edition of the *Encyclopædia Britannica*.]	
1864.	George Johnston Allman, LL.D., D.SC., Bursar, ...	Resigned, 1893
1849.	Sir Thomas Moffett, LL.D., D.LIT., Professor of Logic and Metaphysics; Professor of English History, Literature, and Mental Science, 1863; Registrar, 1870; President, 1877; Senator of the Royal University of Ireland. Author of "Selections from Bacon's Works," translated with commentary, and numerous Literary and Philsophical Papers, ...	Resigned, 1897

DEANS OF RESIDENCES.

Appointed.			Vacated.
1857.	Rev. Wm. Lough, ...	Resigned,	1860
1860.	Rev. Robert Huston, ...	Resigned,	1863
1863.	Rev. John Duncan, ...	Resigned,	1866
1866.	Rev. Hugh Moore, ...	Resigned,	1867
1858.	Rev. John Lewis, ...	Resigned,	1867
1867.	Rev. James Murdock, ...	Resigned,	1868
1849.	Rev. John Treanor, ...	Resigned,	1868
1868.	Rev. Wm. Jarrett, ...	Resigned,	1868
1868.	Rev. Mortlock Long, ...	Resigned,	1871
1871.	Rev. Oliver M'Cutcheon, . . .	Resigned,	1874
1874.	Rev. J. C. Moore, B.A., . . .	Resigned,	1878
1874.	Rev. Colin M'Cay, ...	Resigned,	1876
1876.	Rev. F. Elliot, ...	Resigned,	1879
1879.	Rev. T. W. Baker, ...	Resigned,	1882
1880.	Rev. J. G. Robb, LL.B., D.D., . .	Died,	1881
1880.	Rev. John Kydd, ...	Resigned,	1881
1882	Rev. Thomas C. Maguire, . . .	Resigned,	1885
1885.	Rev. John Carson, ...	Resigned,	1887
1868.	Venerable Archdeacon O'Sullivan, . [Bishop of Tuam, 1890.]	Resigned,	1890
1887.	Rev. Henry Shire, ...	Resigned,	1890
1890	Rev. Richard Little, ...	Resigned,	1893
1893.	Rev. Robert Boyd, M.A., . . .	Resigned,	1896
1896.	Rev. Wm. Crook, D.D., . .	Died,	1897

SESSION 1898–99.

THIS College is a Corporation, founded by Letters Patent under the Great Seal of Ireland, under the name and style of the "President and Professors of Queen's College, Galway."

The general government and administration of the College is vested in a Council consisting of the President and six Professors elected by the Corporate Body.

Visitors:

THE RIGHT HONOURABLE THE CHIEF SECRETARY FOR IRELAND.
THE RIGHT REVEREND THE LORD BISHOP OF TUAM.
THE RIGHT HONOURABLE LORD MORRIS.
THE RIGHT HONOURABLE THE LORD CHIEF JUSTICE OF IRELAND.
THE REVEREND THE MODERATOR OF THE GENERAL ASSEMBLY.
THE PRESIDENT OF THE ROYAL COLLEGE OF PHYSICIANS.
THE PRESIDENT OF THE ROYAL COLLEGE OF SURGEONS.

President:

WILLIAM JOSEPH MYLES STARKIE, M.A., HON. LITT. D. DUB., late Fellow of Trinity College, Dublin.

Professors:

Greek, ...	D'ARCY W. THOMPSON, M.A. CAMB., D.LIT., F.R.U.I.
Latin, ...	PHILIP SANDFORD, M.A. DUB.
Mathematics, . . .	ALFRED C. DIXON, SC.D. CAMB., M.A. LOND., F.R.U.I., late Fellow of Trinity College, Cambridge.
Natural Philosophy, . .	ALEXANDER ANDERSON, M.A. CAMB., Examiner, R.U.I., late Fellow of Sidney Sussex College, Cambridge.
History, English Literature, and Mental Science, .	THE PRESIDENT.
Chemistry, . . .	ALFRED SENIER, PH.D. BERLIN.

Professors—*continued:*

Natural History, . . } *Mineralogy and Geology*, . }	Richard J. Anderson, M.A., M.D. R.U.I., M.R.C.S. Eng.
Modern Languages, . .	Valentine Steinberger, M.A., F.R.U.I.
Jurisprudence and Political Economy, }	Charles Francis Bastable, LL.D. Dub., B.L.
English Law, . . .	William B. Campion, B.A. Dub., Serjeant-at-Law.
Anatomy and Physiology, .	Joseph P. Pye, M.D., M.Ch., D.Sc., F.R.U.I.
Practice of Medicine, . .	John Isaac Lynham, M.D., M.Ch., M.A.O., F.R.U.I.
Practice of Surgery, . .	William W. Brereton, L.R.C.S.I., M.R.C.P.I.
Materia Medica, . .	Nicholas W. Colahan, M.D., M.Ch., R.U.I.
Midwifery, . . .	Richard John Kinkead, B.A., M.D. Dub., L.R.C.S.I.
Civil Engineering, . .	Edward Townsend, M.A. Dub., D.Sc.

(*The above compose the Corporate Body.*)

Council, 1898–99:

The President.

Professor Townsend.	Professor A. Anderson.
,, Kinkead.	,, Sandford.
,, Pye.	,, Senier.

Office-Bearers:

Registrar, ...	Professor Townsend.
Bursar, ...	,, Lynham.
Acting Librarian, . .	,, Thompson.

Deans of Residence:

Church of Ireland, ...	Rev. James F. Berry, B.D.
General Assembly of the Presbyterian Church in Ireland, ... }	Rev. John C. Clarke, B.A.
Methodist Church, ...	Rev. Henry J. F. Ranson.

Lecturers, 1898–99:

Medical Jurisprudence,	Professor Kinkead.
	,, Senier.
Clinical Fever,	,, Colahan.
Pathology,	Thomas McKelvey, M.B., B.Ch., B.A.O.
Natural Philosophy,	John Henry, M.A. (*Demonstrator*).
Chemistry,	William S. Mills, B.A. (*Demonstrator*).
Anatomy,	Joseph G. Anderson (*Demonstrator*).

Senior and other *Scholars* also act as Assistants and Demonstrators to the Professors in the various departments, as required by the Council.

Registrar's and Bursar's Offices.

The Offices of the Registrar and of the Bursar are open on week days during Session from 10 A.M. to 4 P.M., for the receipt of Fees, and transaction of other business. During recess, *letters* addressed to the Registrar will receive attention.

College Clerk, . . . James Duncan.

The College Session.

The College Session commences on the third Tuesday in October, and, in the Faculty of Arts and the School of Engineering, continues until the second Saturday in June; it is divided into three Terms.

The First Term of the Session 1898–99 commences on October 18th, and ends on December 22nd, 1898.

The Second Term commences on January 6th, and ends on March 25th, 1899.

The Third Term commences on April 10th, and ends on June 10th, 1899.

In the Faculties of Law and Medicine the Sessions terminate in March and April, respectively.

Duties of Matriculated Students.

"Every Matriculated Student shall obey the Statutes of the College, conform to all Decrees or other Regulations made by the authorities of the College for the maintenance of discipline and good conduct, and assist the College authorities in enforcing the same."—*Statutes.*

Every Matriculated Student is required to wear a cap and gown.

GENERAL REGULATIONS.

I.—MATRICULATION.

The Matriculation Examination is held at the commencement of the first Term of each Session. In the Session 1898–99, it will commence on Friday, 21st October, at 10 o'clock, A.M.

An additional Matriculation Examination will be held on the 11th November.

Each Candidate, before being admitted to the Matriculation Examination, is required to pay to the Bursar the *Matriculation fee* of ten shillings. This fee will not be returned to Students who may fail to pass the Examination; but such Students may present themselves at any subsequent Matriculation Examination in the same year without additional payment.

All Students are required to appear in the Registrar's office for the purpose of having their names entered on the College books.

The Council will admit any Student to Matriculation, without examination, who has passed the Entrance Examination of either of the Queen's Colleges, Belfast or Cork, or of the Royal or any other University within the United Kingdom empowered to grant Degrees in the several Faculties of Arts, Law, Medicine, and School of Engineering. Provided that—

(*a*) His certificate of Matriculation be lodged with the Registrar:

(*b*) He pass any portion of the Matriculation Examination of the College that is not included in the Entrance Examination of such other College or University:

(*c*) His College Fees have been paid:

(*d*) His standing be counted from the date of his having passed the Entrance Examination of such College or University.

A certificate of Matriculation will not be granted to any Student until he has paid the whole of the *Class Fees* for the Session, and commenced attendance on Lectures.

II.—AD-EUNDEM STUDENTS.

Any Student who has pursued part of his Collegiate Studies in any one of the Queen's Colleges, or in any University empowered to grant Degrees in Arts, Law, Medicine, and Engineering, or Student of any School of Law, Medicine, or Engineering, recognized by the Council, may, on passing such Examinations, and fulfilling such other conditions as the Council shall prescribe, take corresponding rank in this College; and may also compete for Junior Scholarships or other Prizes of the corresponding year: provided he shall not hold at the same time a Scholarship or other office of emolument in any other University, College, or Medical School.

III.—NON-MATRICULATED STUDENTS.

Non-Matriculated Students may attend the Lectures of any Professor. They are required to pay to the Bursar the Fees for the Classes they propose to attend, and a College Fee of ten shillings, and to sign an engagement to observe order and discipline in the College. They are not entitled to compete for Scholarships or other Collegiate distinctions.

During the term of their attendance on College Lectures they are admitted to read in the Library, and are permitted to take out books on loan under the same regulations as Matriculated Students.

IV.—ADMISSION OF WOMEN.

Women may attend the Lectures of the Professors, and present themselves at the College Examinations. By a recent alteration in the statutes all Scholarships and Prizes are open to Students of either sex.

V.—FEES PAYABLE BY STUDENTS.

To be paid to Bursar at commencement of First Term.

	£	s.	d.
College Fee—			
For each and every year, including Matriculation,	0	10	0
CLASS FEES.			
Pass Courses—			
For each Course,	2	0	0
Re-attendance on same,	1	0	0
Except for the following :—			
Anatomy and Physiology (First Course),	3	0	0
First Re-attendance on Physiology (by Junior Students),	2	0	0
Practical Anatomy,	3	0	0
*Practical Physiology,	2	0	0
Practical Anatomy (Post-Graduate and Six Months Honour Courses),	5	0	0
Practical Physiology (Post-Graduate and Six Months Honour Courses),	5	0	0
*Practical Histology,	2	0	0
Practical Chemistry,	3	0	0
Additional Instruction in Chemistry Laboratory (1st and 2nd Years' Courses), per month,	1	0	0
Practical Chemistry (Post-Graduate and Six Months Honour Courses),	5	0	0
Hebrew or Sanskrit,	3	0	0
†Practical Biology (3 months),	2	0	0
Practical Biology (3rd Year),	2	0	0
Practical Physics (Second and Third Terms),	2	0	0
Medical Jurisprudence,	2	0	0
Pathology,	2	0	0
Honour Courses—			
In all subjects of the 1st and 2nd Years,	2	0	0
‡In all subjects of the 3rd Year,	3	0	0

SCHOLARS.

Junior Scholars are exempted from the payment of one-half of the Class Fees for *Pass Courses*, prescribed to Students of their Faculty and standing, when attended for first time.

VI.—RULES RELATING TO ATTENDANCE ON LECTURES.

All Matriculated Students are required to attend Lectures in Academical Costume.

No Student shall be admitted to Lectures until he has paid his College and Class Fees to the Bursar, and entered his name with the Registrar.

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* Conjoint Fee, £3.

† Students of Natural History are admitted to the Practical Biology Class on payment of £1.

‡ Except in Jurisprudence and Political Economy, in which the fees are £2 each.

Attendance on Lectures includes preparation for Lectures; and a Professor, who on any occasion is not satisfied with the preparation of a Student, may refuse him credit for attendance.

In cases where Students pass from the Faculty of Arts to a different Faculty or School, they are exempted from re-attendance upon such Courses in Arts as they have already attended, which would otherwise be necessary for keeping the Academic year.

In cases of absence arising from illness, or other unavoidable cause, the Student is required, on resuming attendance, to lodge with the Registrar a letter or certificate explaining his absence, to be laid before the Council.

VII.—LIBRARY REGULATIONS.

[For Statutes referring to the Library, see Chapters VIII. and XII.]

ORDERS OF COUNCIL.

I. General.

The Library shall be opened and closed as follows:—

OPEN.

1st March to 1st July, from 10 a.m. to 5 p.m.
1st August to 1st October, from 11 a.m. to 3 p.m.
1st October to 1st November, from 10 a.m. to 5 p.m.
1st November to 1st March, from 10 a.m. to 4 p.m.

CLOSED.

1st July to 1st August, on College holidays, and for five days during the Christmas and Easter Recess.

The Librarian shall attend in the Library each day from 11 a.m., to 3 p.m.

The Librarian shall enter the name of every new book in the Departmental Catalogue.

No book shall be issued, placed in the Professor's Room, nor taken away by a Professor or Officer, until the invoice of the parcel which contained it shall have been examined by at least one Member of the Library Committee; the name of the book shall have been entered in the Catalogue; the book

itself shall have been stamped; and its place in the Library shall have been marked on it.

Dictionaries, Grammars, Cyclopædias arranged in alphabetical order, works the chief of which value consists in plates and embellishments, and such books as the Library Committee shall enumerate, shall be issued only by special permission of the Library Committee.

The Librarian shall each day examine the recall book, and call in all books therein required.

If a book be not brought back when due or when required, the Librarian shall write to demand its immediate return, and if the demand be not complied with, he shall report the same to the Council.

The Librarian shall call in all books towards the close of the Second Term; and shall report to the Council the names of all persons in default.

Every book brought back to the Library shall be set aside by the Librarian's Assistant, until it shall have been inspected by the Librarian, and the said book shall not be re-issued (unless to the same borrower) until it shall have been so inspected.

The Librarian shall inspect each book returned, if not re-issued to the same borrower.

In case of a book or books being lost or injured, the Library Committee shall estimate the cost of such loss or injury, and the borrower shall pay same: or the amount may be deducted from the deposit lodged with the Bursar. The privilege of borrowing shall cease until the loss has been made good, or the deposit made up to the full amount.

No books shall be ordered except through the Librarian.

The Professors' room shall be kept strictly private.

II. Issuing of Books.

To Professors and Office Bearers.

A Professor may borrow whatever books from his own department he may require for the working of the same.

A Professor or Officer of the College may borrow books from any department other than his own, provided that the number of such volumes in his possession at anyone time do not exceed twenty; each volume to be returned within one month.

A Professor or Officer of the College requiring a larger number of books for any special purpose, shall make application on each occasion for the same to the Library Committee, stating fully the grounds on which he requires them.

A Professor or Officer shall, on borrowing a book, enter its name and the date of issue in a book provided for that purpose, and, on his returning it, the Librarian shall enter the date of return.

A Professor or Officer requiring a book which is out may enter its name in a recall book to be kept for that purpose in the Professors' Room, and on its return shall have priority.

A Professor may, through the Librarian, call in any book lent from his department: and such book shall immediately be returned to the Library by the borrower.

The last number of any periodical shall not be removed from the Professors' Room until after the time limited by the posted notice, and the Librarian shall report to the Library Committee every infringement of this rule.

To Students.

No Student shall be admitted to the Library, except in full academical costume.

No Student shall be allowed to read in, nor borrow books from, the Library until he shall have subscribed the following declaration:—

"I, the undersigned, do hereby promise to the President and Council of Queen's College, Galway, that I will not mark, turn down the leaves of, or write on paper placed upon, or in any way whatsoever soil, deface, injure or remove without permission, any book or document in the Library of said College. I also promise that I will not injure the Library furniture: that I will faithfully observe all the rules made for the regulation of the Library; and that I will acquaint the College Authorities with any serious instance of violation of the said rules which may come under my notice."

A Student, after depositing with the Bursar £1, may borrow three volumes, or on depositing £2, six volumes, at a time.

A Scholar can comply with this rule by giving the Bursar an order on his Scholarship for the amount of the deposit.

On the production, by a Student, of a certificate from the Librarian that all books borrowed by him from the Library have been returned uninjured, the Bursar shall, at the end of the term, repay the deposit.

The Library Committee may grant special permission to a Senior Scholar to borrow more books than the number of

volumes specified in these rules, application for this privilege to contain the names of the books required, and to be countersigned by the Professor of the Department.

A Student shall not retain a book borrowed from the Library longer than one fortnight; but on returning it, may renew the loan, if it has not been in the meantime applied for.

On receiving at any time notice from the Librarian, a Student shall return within 48 hours, any books borrowed from the Library. On failure to comply with this rule he incurs a penalty of sixpence per volume for each day the book or books are retained, until the amount of fine equals the deposit.

To others than Professors or Students.

Any person resident in Galway may, by permission of the Council or of the Library Committee, obtain the privilege of borrowing books from the Library.

Each person on obtaining such permission, shall deposit the sum of £1 with the Bursar, which shall be refunded when he ceases to avail himself of the privilege, on presenting a certificate from the Librarian that all books borrowed by him have been returned uninjured.

No person can have more than two volumes on loan from the Library at the same time.

No person can retain a book for longer than a fortnight, but may, on returning it, renew the loan if the book has not in the meantime been applied for.

Books shall not be issued to persons other than Professors, Office Bearers, or Students, except between 12 and 3 p.m. on Wednesdays and Saturdays.

VIII.—SESSIONAL EXAMINATIONS.

An Examination is held at the close of each Session in the subjects upon which Lectures have been delivered. Any Professor may, with the sanction of the Council, conduct the Sessional Examinations in any of his Classes by means of Term Examinations. Notice of this method shall be given to the Class at the beginning of the Session. Prizes are awarded for distinguished answering in these Examinations.

A Supplementary Examination in the same subjects is held at the commencement of the following Session. Candidates intending to present themselves at the Supplementary Examination must give a fortnight's notice to the Registrar.

Every Matriculated Student in Arts, Law, and Engineering, must pass either the Sessional or the Supplementary Examination, before his name can be entered on the College Register as having completed the Session.

No Student is admitted to the Sessional or the Supplementary Examination who has not attended the Courses of Lectures prescribed to Students of his class and standing.

IX.—SCHOLARSHIPS.

A.—Senior Scholarships.

The Council is empowered to award by Examination Eight Senior Scholarships of the value of £40 each to Matriculated Students, whose answering is reported as meritorious, and who shall have, during *three College Sessions* (of which *two at least* shall have been attended in Queen's College, Galway*), attended such Courses of Lectures, and passed such Examinations as shall be prescribed in that behalf by the Council, and who shall have passed the necessary Examinations within five years from the date of Matriculation, and who shall have complied with such further conditions as the Council shall impose, provided he shall not have previously obtained a Senior Scholarship in the same department in this or in either of the other Queen's Colleges.

Of these Scholarships one is awarded for proficiency in each of the following departments:—

1. Ancient Classics.
2. Modern Languages and Modern History.
3. Mathematics.
4. Natural Philosophy.
5. Metaphysical and Economic Science.
6. Chemistry.
7. Natural History.
8. Engineering.
9. See note †.

All Senior Scholars are required to be in attendance in the College during their period of office, and to assist the Pro-

* The *third* Session above referred to, as in the Statute relating to Senior Scholarships, may have been attended by Candidates in any one of the Queen's Colleges in Ireland, or in a College of any University in the United Kingdom.

† One Senior Scholarship in *Anatomy and Physiology*, value £40, will also be open for competition at commencement of Session 1898–99, tenable for one year, by a Student who shall have attended the Medical School of this College for at least Two Sessions, and shall not be of more than six years' standing from date of Registration as a Student in Medicine. The Senior Scholar shall assist the Professor in such way as the Council shall prescribe.

fessors in such ways and under such regulations as the Council shall prescribe.

Senior Scholars, except in Engineering and Medicine, who have not taken the Degree of B.A., shall attend the Courses prescribed for the third year in Arts.

Senior Scholars in Engineering, who have not taken the Degree of B.E., shall attend the Courses prescribed for the Students in Engineering of the Third Year.

Senior Scholars not assisting the Professor must attend at least one Honour Course of three Terms.

For the date of these Examinations, see page 152. For the Courses in the various branches, see pages 166, *sqq.*

B.—Junior Scholarships.

The Council is empowered to award Forty-five Junior Scholarships, tenable for one year, which are allocated as follows:—

(*a*) In the Faculty of Arts, thirty (value £24 each).
(*b*) In the Faculty of Law, two (value £25 each).
(*c*) In the Faculty of Medicine, eight (value £25 each).
(*d*) In the School of Engineering, five (value £20 each).

(*a*) Of the thirty Junior Scholarships assigned to the Faculty of Arts, ten—five Literary and five Science*—are awarded to Students of the *First Year* (see page 156); ten others—five Literary and five Science* to Students of the *Second Year* (see page 159); ten—five Literary and five Science—to Students of the *Third Year* (see page 162).

For Courses, see pages 155, *sq.*

(*b*) Of the two Junior Scholarships appropriated to the Faculty of Law, *one* is tenable by a Student of the *First* Year, *one* by a Student of the *Second* Year.

For Courses, &c., see page 192.

(*c*) Of the eight Junior Scholarships appropriated to the Faculty of Medicine, *two* are tenable by Students of the *First* Year, *two* by Students of the *Second* Year, *two* by Students of the *Third* Year, and *two* by Students of the *Fourth* Year.

For Courses, &c., see pages 195, *sqq.*

(*d*) Of the five Junior Scholarships appropriated to the

* The Council may withhold Scholarships in either department on the ground of insufficient answering, and may assign Scholarships so withheld to the other department.

If a Candidate be placed *first* in the order of merit in *both* departments, he is entitled to two Junior Scholarships, but in no other case can the same person hold two Scholarships simultaneously.

School of Engineering,* *two* are tenable by Students of the *First* Year, *two* by Students of the *Second* Year, and *one* by a Student of the *Third* Year.

For Courses, see pages 212, *sq.*

Junior Scholars in any Faculty are exempted from the payment of one half of the Class Fees for the *Pass Courses prescribed to Students of their faculty and standing.* (See pages 173, 192, 195, 212, and 215).

The Examinations for Junior Scholarships are held during the first term of the Session.

No Student can compete for any Scholarship until—

(*a*) He has Matriculated.†

(*b*) He has paid the College and Class Fees.

(*c*) He has entered his name with the Registrar.

(*d*) He has (except when a candidate for a Junior Scholarship of the First Year) completed the course of the previous year in any one of the Queen's Colleges, or in any University empowered to grant Degrees.

No Student can compete for a Scholarship in any Course substantially the same as that in which he has already held a Scholarship or Exhibition in this, or in either of the other Queen's Colleges.

No Scholarship will be awarded to a Candidate who is not, in the opinion of the Examiners, sufficiently qualified in the prescribed Course.

Scholars failing to attend the prescribed Courses of Lectures, and to pass the Sessional Examinations, vacate their Scholarships. Students attending Honour Lectures must pass the Sessional Examinations in the subjects of such Lectures.

For the days and hours of examination for these Scholarships see pages 152–153.

EXHIBITIONS.

The Council may award Exhibitions, tenable for one year,

* Candidates for Junior Scholarships of the First Year in Arts or Engineering must declare which they intend to compete for, as competition for both is inadmissible.

† Non-Matriculated Students, who satisfy the Registrar that they have been *bonâ fide* Candidates at the Current Matriculation Examination of the Royal University, may be admitted to the Scholarship Examinations on payment of the stated Fees, but cannot be elected to Scholarships unless they produce to the Registrar Certificates of having passed that Matriculation Examination, on or before the day on which the Scholarships are awarded.

to Matriculated Students at the Examinations for Junior Scholarships.

No Student is allowed to compete for an Exhibition in any Course substantially the same as that in which he has already held a Scholarship or Exhibition.

Exhibitioners failing to attend the prescribed Courses of Lectures, and to pass the Sessional Examinations, forfeit their Exhibitions.

The "Blayney" Exhibition.

An Examination for one Exhibition, value about £30, in connection with the "Blayney" Bequest, is held in the month of December of each year, on the following conditions:—

1. No Candidate is eligible if more than two and a-half years have elapsed from the date of his Matriculation in this College to the time of the Examination.

2. The Holder of the Exhibition must attend Honour Classes, as required by the Council in this College, during the Session in which he shall have obtained the Exhibition; he must pass the College Sessional Examinations at the close of the same Session, and he must qualify for First Class Prizes at these Examinations in the subjects in which he shall have obtained the Exhibition.

3. The Council retain the power of withholding, or of awarding only a portion of the Exhibition.

4. The "Blayney" Exhibition may be held along with any Scholarship.

5. One-half of the Exhibition will be paid in January, and one-half in the following month of July, provided the Holder shall have satisfied the conditions stated above.

The Exhibition is awarded in alternate years for Classical and Scientific merit, respectively. In 1898 the Course will be Classical.

The following is the Course:—

1. Composition in Greek and Latin Prose.
2. Higher Grammar and Philology (King and Cookson's *Comparative Grammar*, and Lindsay's *Short Historical Latin Grammar*.)
3. Unprescribed Translation.
4. The following authors:—
   Greek, . Aristophanes—*Frogs* and *Knights*.
   Aristotle—*Poetics*.
   Latin, . Tacitus—*Annals*, xiii., xiv.
   Plautus—*Rudens*.

The Examinations will begin on Thursday, 1st December, 1898.

"Blayney" Exhibitioners.

1890 (*Classics*),	Mahon, John S. (Sch.)
1891 (*Science*),	M'Clelland, John A. (Sch.)
1892 (*Classics*),	M'Gregor, William (Sch.)
1893 (*Science*),	None awarded.
1894 (*Classics*),	Johnston, James (Sch.) (Mills, John (Sch.), *proxime accessit*.)
1895 (*Science*), (*Classics*),	Carmichael, John S. (Sch.) / Reid, John (Sch.)
1896 (*Classics*),	Hezlett, James (Sch.)
1897 (*Science*),	McLean, Andrew H. (Sch.)
1898 (*Classics*),	Williams, William J. (Sch.)

The President's Medal.

This Medal for excellence in Oratory and English Composition, founded by the late President, Sir Thomas Moffett, will be awarded annually in connection with the Literary and Debating Society, by the President.

Medalists.

1895–96,	William J. Farley, B.A.
1896–97,	David S. Curry, B.A.
1897–98,	Henry G. O'Grady.

Research Scholarship.

A Research Scholarship in Science (value £150 per annum, tenable for two years, subject to a satisfactory report at the end of the first year) has been offered by the Royal Commission for the "1851 Exhibition," to students of science of at least three years' standing who have been recommended by the authorities of this College. For information respecting the nomination for 1897–8 given to this College by the Royal Commission, application may be made to the Registrar.

1892–3,	William Gannon, M.A.
[1893–4,	William Gannon, M.A.*]
1894–5,	John A. M'Clelland, M.A.
1895–6,	John A. M'Clelland, M.A.
1896–7,	John Henry, M.A., B.E.
1897–8,	Hugh Ryan, M.A.

* Resigned Scholarship on being appointed to Lectureship in the Owens College, Manchester.

TIME TABLES OF EXAMINATIONS.

I.—DAYS AND HOURS OF MATRICULATION AND SCHOLARSHIP EXAMINATIONS.

OCTOBER, 1898.

DAYS.	HOURS.	FIRST YEAR.	SECOND YEAR.	THIRD YEAR.	SENIOR SCHOLARSHIPS.
Tuesday, 18th Oct.	10—5		Supplementary Examinations.	Supplementary Examinations.	
Wednesday, 19th Oct.	10—5		Supplementary Examinations.	Supplementary Examinations.	
Thursday, 20th Oct.	10—1		Scholarship Examinations.	Scholarship Examinations.	
			Lit. Schol.—Latin.	Lit. Schol.—Latin.	Latin.
	2—5		Lit. Schol.—Greek.	Lit. Schol.—Greek.	Greek.
Friday, 21st Oct.		MATRICULATION.			
	10—11½	English.	10—1 { Lit. Schol.—English. Eng. Schol.—Geometrical Drawing, &c.	10—1 { Lit. Schol.—English.	French.
	11½—1	Latin.			
	11½—1	Greek.			
	2—3½	French or German or Italian.—	2—5 { Lit. Schol.—English. Eng. Schol.—Geometrical Drawing, &c.	2—5 { Lit. Schol.—English.	German.
	3½—5	Mathematics.			Italian.
Saturday, 22nd Oct.	10—1	Experimental Physics.	Lit. Schol.—Latin. Med. Schol.—Natural History.	Lit. Schol.—Latin.	Latin. Natural History.
	2—5		Lit. Schol.—Greek. Med. Schol.—Natural History.	Lit. Schol.—Greek.	Greek.

Monday, 24th Oct.	10—1	Lit. / Med. } Schol.—English.	Eng. / Lit. } Schol.—Mod. Lang.	Engin. Schol.—Engineering.	[illegible]nce.
	2—5	Lit. / Med. } Schol.—Greek.	Lit. Schol.—Modern Languages.	Engin. Schol.—Engineering. / Lit. Schol.—Mod. Lang.	Engineering. Modern History.
Tuesday, 25th Oct.	10—1	Lit. / Med. } Schol.—Latin.	Med. / Engin. } Schol.—Theoretical Chemistry.	Science Schol.—Chemistry.	Theoretical Chemistry.
	2—5	Lit. / Med. } Schol.—Greek.		Science Schol.—Mathematical Physics.	Mathematical Physics.
Wednesday, 26th Oct.	10—1	Lit. / Med. } Schol.—Latin.	Science Schol. / Med. Schol. / Engin. Schol. } Experimental Physics.	Engin. Schol.—Mathematical Physics. / Science Schol.—Exper. Physics.†	Exper. Physics.†
	2—5	Science / Med. / Engin. } Schol.—Arithm. Algebra.	Science / Engin. } Schol.—Mathematics.	Science Schol.—Mathematics.	Metaphysics.
Thursday, 27th Oct.	10—1	Science / Med. / Engin. } Schol.—Geom. Trig.	Science / Engin. } Schol.—Mathematics. / Med. Schol.—Anatomy.	Science Schol.—Mathematics. / Engin. Schol.—Mathematics.	Mathematics.
	2—5	Lit. / Med. } Celtic.	Med. Schol.—Anatomy.	Engin. Schol.—Practical Chemistry. / Science Schol.—Natural History.	Practical Chemistry.*
Friday, 28th Oct.	10—1	Lit. / Med. } German.		Science Schol.—Geology.	English.
	2—5	Lit. / Med. } French.		Lit. Schol.—Logic.	English.
Saturday, 29th Oct.	10—1	Lit. / Med. } Italian.			

For Examinations for *Third* and *Fourth* Years' Scholarships in *Medicine*, and for Junior Law Scholarships, see next page.

* This Examination usually extends over two days, the hours to be arranged with Examiner

† There will be an Examination in Practical Physics, day and hour to be arranged.

II.—DAYS AND HOURS OF THE EXAMINATIONS FOR MEDICAL SCHOLARSHIPS OF THE THIRD AND FOURTH YEARS.

DAYS.	MONTHS.	HOURS.	SUBJECTS.
THURSDAY, ...	27th October, . . .	10—1, ...	Anatomy.
		2—5, ...	Physiology.
FRIDAY, ...	28th October, . . .	10—1, ...	Materia Medica.
		2—5, ...	Surgery.
SATURDAY, ...	29th October, ...	10—1, ...	Midwifery.
		2—5, ...	Medicine.
		10—1, ...	Practical Chemistry.
MONDAY, ...	31st October, ...	10—11½, 11½—1, ...	Medical Jurisprudence.

Examinations for JUNIOR LAW SCHOLARSHIPS will be held on the 16th and 17th December.

EXAMINATIONS.

COURSES FOR THE SESSION 1898–9.

I.—MATRICULATION.*

[For Regulations and date see pages 150 and 152.]

A.—*In the Faculties of Arts, Law, and Medicine.*

Subjects:

i. *Latin.*
ii. Any one of the following languages:—*Greek*, *French*, *German*, *Italian.*
iii. *English.*
iv. *Mathematics.*
v. *Experimental Physics.*

The following are the particulars of the foregoing subjects of Examination:—

i. *Latin*, . . Ovid—*Metam.* xiii.
Cicero—*Pro Lege Manilia*, *In Catilinam*, iii. & iv.
Outlines of Roman History, from 390 B.C. to 27 B.C. (Smith's smaller *History of Rome*).
[NOTE.—A paper will be set in Latin Grammar, and easy sentences will be set for translation into Latin.]

ii. *Greek*, . . Xenophon—*Hellenica*, Book i.
Euripides—Scenes from *Medea*. (Longmans.)
Outlines of Grecian History, from 560 B.C. to 322 B.C. (Smith's smaller *History of Greece*.)
[NOTE.—A paper will be set in Greek Grammar touching on Declensions, Conjugations, and Rules of Syntax.]

French, . . Souvestre—*Un Philosophe sous les toits.*
Delavigne—*Les Enfants d'Edouard.*
Elements of French Grammar.
Easy sentences for translation into French.
Oral Examination.

German, . . Archenholz—*Geschichte des siebenjährigen Krieges*, Books i. and ii.
Lessing—*Minna von Barnhelm.*
Elements of German Grammar.
Easy sentences for translation into German.
Oral Examination.

Italian, . . Soave—*Novelle Morali*, from 1 to 10, inclusive.
Grossi—*I Lombardi alla prima Crociata*, Cantos 4, 5, 6.
Elements of Italian Grammar.
Easy sentences for translation into Italian.
Oral Examination.

* Matriculation Certificates of the Queen's Colleges, Belfast and Cork, and of the Royal University of Ireland, and of other Universities, are accepted by this College.

iii. *English*, . . English Grammar and Composition, together with the Principles of Rhetoric and Composition.
Longfellow—*The Courtship of Miles Standish.*
Tennyson—*Morte d'Arthur.*
Steele—*Selected Essays from the Tatler* (Steele's edition), (Macmillan).

iv. *Mathematics*, . Arithmetic, including Vulgar and Decimal Fractions, Proportion and its applications, and the Extraction of the Square Root.
Algebra, including Fractions, and the solution of Simple Equations.
Geometry—Euclid, Books i., ii., iii.

v. *Experimental Physics:* The Elementary Principles of Dynamics and Hydrostatics, as treated in Everett's Elementary Text-book of Physics.

B.—*In the School of Engineering.**

Subjects:

i. *Mathematics.*—Same as Course in Faculty of Arts. .

ii. *History, Geography, and the English Language.* History—Outlines of Ancient History. Geography—Outlines of Ancient and Modern Geography. English Language—English Grammar and Composition.

iii. *Experimental Physics:* Same as Course in Faculty of Arts.

II.—JUNIOR SCHOLARSHIPS OF THE FIRST YEAR.

[For Regulations see pp. 148 sqq. For dates of Examinations see pp. 152 and 153.]

1. Faculty of Arts.

A.—*Literary Scholarships of the First Year.*

Subjects:

i. *Latin.*

ii. Any one of the following languages:—*Greek, French, German, Italian, Celtic.*

iii. *English.*

NOTE.—In Group ii., embracing Greek, French, German, Italian, Celtic, the candidates must answer in one subject, may answer in two, but not in more.

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* See footnote, p. 155.

Detailed Courses:

[The maximum mark is attached to each subject, and no mark under one-fifth of this is taken into account.]

i. *Latin* (150), . Livy—*Book* v.
Sallust—*Catilina.*
Horace—*Odes*, Book ii. [omitting *Odes* 4, 5, 8, 11, 12]; *Satires*, Book ii., 1, 2, 4, 6, 8. *Epistles*, ii., 1 and 2.
A piece of unprescribed Latin.
A paper on Latin Grammar.
Roman History—133–65 B.C. (Student's Rome).
Composition in Latin Prose.

Greek (150), . Homer—*Iliad*, xxii.; *Odyssey*, Book i.
Demosthenes—*De Corona*, to page 288 (Reiske).
Isocrates—*Panegyricus.*
A piece of unprepared Greek.
A paper in Greek Grammar (Accidence, ordinary Rules of Syntax, and idiomatic Constructions).
Grecian History—560 to 322 B.C. (The Students' Greece, or Oman's History of Greece), and outlines of Greek Literature (Jebb's Primer).
Composition in Greek Prose.

French (100), . Erckmann-Chatrian—*L'Invasion.*
La Fontaine—*Select Fables* (Macmillan).
Corneille—*Polyeucte.*
Sandeau—*Mdlle. de la Seiglière.*
French Grammar. Translation from English into French. Oral Examination.

German (100), . Lessing—*Minna von Barnhelm.*
Archenholz—*Geschichte des siebenjährigen Krieges*, Books i. and ii.
Goethe—*Tasso.*
Schiller's *Poems*—Das Siegesfest, Der Ring des Polykrates, Die Kraniche des Ibykus, Die Bürgschaft, Der Taucher, Ritter Toggenburg, Der Graf von Habsburg, Der Handschuh, Das verschleierte Bild zu Sais, Pegasus im Joche, Lied von der Glocke.
German Grammar. Translation from English into German. Oral Examination.

ii. *Italian* (100), . Machiavelli—*Istorie Fiorentine*, Books i., ii., iii., and iv.
Monti—*Caio Gracco.* Alfieri—*Agide.*
Italian Grammar. Translation from English into Italian. Oral Examination.

Celtic * (100), . *Tri Bior-ghaoithe an Bhais* (Atkinson, pp. 1–79.)
Irish Phrase-Book (Hogan).
Cath Rois na Riogh (Hogan).
Grammar and Composition.
Keating's *History of Ireland*, Book i., Part i.

* No Candidate can take Celtic as a subject unless he has given the Registrar notice of his intention at least six weeks before the date of Examination.

iii. *English* (100), . Bacon—*Selected Essays*, viz.:—Of Great Place; Of Boldness; Of Seditions and Troubles; Of Empire; Of Delays; Of Despatch; Of Expense; Of the True Greatness of Kingdoms and Estates; Of Regiment of Health; Of Suspicion; Of Plantations; Of Fortune; Of Beauty; Of Followers and Friends; Of Ceremonies and Respects.

Shakspere—*Macbeth, Julius Cæsar.*

Pope—*Essay on Criticism*, and *Moral Essays*, 1, 3, 4 (T. Arnold's Text).

Macaulay—*Essays on Clive and Warren Hastings.*

English Grammar and Composition.

B.—*Science Scholarships of the First Year.*

Subjects:

i. *Arithmetic*—

Including Vulgar and Decimal Fractions, Proportion and its applications, and the extraction of the Square Root.

ii. *Algebra*—

Including the Solution of Simple and Quadratic Equations; Progressions, Permutations and Combinations, the Binomial Theorem for a positive Integral exponent, the nature and use of Logarithms, Problems.

iii. *Geometry*—

Euclid, Books i.–vi., or the subjects thereof. Deductions.

iv. *Plane Trigonometry*—

So far as to include the Solution of Triangles. Problems.

v. The use of Logarithmic and Trigonometrical Tables.

2. Faculty of Law.

One Junior Scholarship is awarded in the First Year.

Examination to be held in December.

For the Course, see page 192.

3. Faculty of Medicine.

Two Junior Scholarships are awarded in the First Year. (See page 148).

The Course for one is the same as that prescribed for *Literary* Scholarships of the First Year in the Faculty of Arts (pages 156–157), and the Course for the other is the same as that prescribed for *Science* Scholarships of the First Year in the Faculty of Arts (page 158). But the Council may withhold either Scholarship if sufficient merit be not shown, and may assign the Scholarship so withheld to the other department. Exhibitions may also be awarded.

4. School of Engineering.

Two Junior Scholarships are awarded in the First Year.

The Course for these Scholarships is the same as that prescribed for the *Science* Scholarships of the First Year in the Faculty of Arts (page 158). The Council may withhold the Scholarships, or award Exhibitions as in the Faculty of Arts.

III.—JUNIOR SCHOLARSHIPS OF THE SECOND YEAR.

1. Faculty of Arts.

A.—*Literary Scholarships of the Second Year.*

Subjects:

i. *Latin.*

ii. Any one of the following languages:—

Greek, French, German, Italian.

[Candidates may select two, but not more, of these four languages.]

iii. *English.*

Detailed Courses:

[The maximum mark is attached to each subject, and no mark under one-fifth of this is taken into account.]

i. *Latin* (200), . Horace—*Satires, Book* i.; and *Odes, Book* iii.
Virgil—*Georgics*, i. and iv.
Livy—*Book* xxxiii.
Cicero—*Pro Murena.*
Translation at sight.
Latin Prose Composition, and Questions on Grammar and Philology.
Roman History—from B.C. 241 to B.C. 196. (*Mommsen*, vol. ii., Book iii., chaps. 3–8).
Literature—The Republican Period (Cruttwell, Book ii., pt. i.).

ii. *Greek* (200), . Euripides—*Bacchæ.*
Homer—*Odyssey*, v., vi., and vii.
Herodotus—*Book* ix.
Demosthenes—*Leptines.*
Translation at sight.
Greek History—from B.C. 500 to B.C. 322.
Greek Prose Composition, and Questions on Greek Grammar and Philology.

French (150), . Bonnechose—*Bertrand du Guesclin* (Hachette).
Racine—*Iphigénie.*
E. de Girardin—*La joie fait peur.*
Thierry—*Lettres sur l'histoire de France*, xiii. to xxiv. (Cambridge Press).
Questions on the Works and Lives of the Authors prescribed.
French Grammar.
Translation from English into French.

German (150), . Goethe—*Poems*: Mignon, Der Sänger, Erlkönig, Fischer, König in Thule, Schatzgräber, Zauberlehrling.
Lessing und Gellert—*Fabeln*, &c. (Pitt Press Series).
Körner—*Leyer und Schwert.*
Sybel—*Prinz Eugen.*
German Grammar.
Translation from English into German.
Questions on the Works and Lives of the Authors prescribed.

Italian (150), . Manzoni—*Adelchi.*
Bresciani—*La contessa Matilda.*
Tasso—*Gerusalemme Liberata*, Cantos i. to iv., inclusive.
Italian Grammar.
Translation from English into Italian.
Questions on the Works and Lives of the Authors prescribed.

iii. *English* (150), . Shakspere—*Richard II.*
Pope—*Essay on Man.*
Johnson—*Life of Pope. Rasselas.*
Gray—*Elegy;* Odes on *Spring, Eton, Adversity, the Progress of Poesy; the Bard.*
Addison—*Critical Papers* (Arnold's edition).
History of English Literature from 1700 to 1800.
English Composition.

B.—*Science Scholarships of the Second Year.*

Subjects:

(1.) Mathematics.

The Course appointed for Science Scholarships of the First Year, and in addition the following :—

Algebra—

Nature and Simpler Transformations of Equations.

Geometry—

Elements of Solid Geometry—Euclid, Book xi., Propositions 1 to 21, inclusive, with easy deductions from them; Elementary Properties and Mensuration of the Prism, Pyramid, Cone of Revolution and Sphere.

Trigonometry—

Plane Trigonometry (including Mensuration of Plane Figures, Determination of Heights and Distances, Properties of the Circumscribed, Inscribed, and Escribed Circles, and the Use of Tables); and Spherical Trigonometry (including the Solution of Triangles).

Analytical Geometry—

Discussion of the Equations of the Right Line and Circle in Cartesian and Polar Co-ordinates; Equations of the Conic Sections, deduced from their Geometrical Definitions, with their Elementary Properties. Easy Problems.

(2). Experimental Physics.

The Elementary Principles of Mechanics, Hydrostatics, Pneumatics, Sound, Heat, Light, Electricity and Magnetism.

2. Faculty of Law.

One Junior Scholarship (value £25) is awarded in the Second Year.

For the date of Examination see page 154.

For the Course see pages 192, 193.

3. Faculty of Medicine.

Two Junior Scholarships (value £25 each) are awarded in the Second Year.

For days and hours of Examination see page 152.

For the Course see page 195.

4. School of Engineering.

Two Junior Scholarships (value £20 each) are awarded in the Second Year.

For days and hours of Examination see page 152.

For the Course see page 212.

IV.—JUNIOR SCHOLARSHIPS OF THE THIRD YEAR.

1. Faculty of Arts.

A.—*Literary Scholarships of the Third Year.*

Subjects:

i. *Latin.*

ii. Any one of the following languages:—

Greek, French, German, Italian.

[Candidates may select two, but not more than two of these four languages.]

iii. *English.*

iv. *Logic* (Optional).

Detailed Courses:

[The maximum mark is attached to each subject, and no mark under one-fifth of this is taken into account.]

Latin (200), . Tacitus—*Agricola*; Juvenal—*Satires*, 1, 3, 4, 10, 11, 16; Cicero—*In his Letters*, i. to xl. (Tyrrell's edition); Lucretius—*Book* i.; Martial (Macmillan), ix.–xii.
Translation at Sight.
Latin Prose Composition, and questions on Grammar and Philology.
History and Literature of the period from 68 A.D. to 138 A.D. (*Students' Roman Empire*).

Greek (200), . Homer—*Iliad*, i. xi. xvi.; Sophocles—*Oedipus Rex* and *Antigone*; Plato—*Phaedo*; Thucydides, Book iv.
Translation at Sight.
Greek Prose Composition, and questions on Grammar and Philology.

French (150), . Boileau—*L'Art Poétique*.
Racine—*Andromaque*.
Molière—*Les Femmes Savantes*.
Mme de Staël—*Le Directoire*.
Labbé—*Morceaux choisis des auteurs contemporains* (Librairie Bélin).
French Grammar.
Translation from English into French.
Elementary history of the French language.
French Literature during the age of Louis XIV.

ii. *German* (150) . Schiller—*Historische Skizzen*.
Schiller—*Die Piccolomini*.
Goethe—*Wahrheit und Dichtung*, i. ii. iii.
Goethe—*Hermann und Dorothea*.
Gutzkow—*Zopf und Schwert*.
German Grammar.
Translation from English into German.
Elementary history of the German language.
German Literature from 1748–1832.

Italian (150), . Goldoni—*Un Curioso Accidente*.
Alfieri—*Oreste*.
Machiavelli—*Istorie Fiorentine*, Bks. i.–iv. incl.
Dante—*Inferno*.
Italian Grammar.
Translation from English into Italian.
Elementary History of the Italian language.
Italian Literature from 1260–1376.

iii. *English* (150), . Shakspere—*Hamlet and Richard III.*
Spenser—*Faëry Queene*, Book i.
Milton—*Paradise Lost*, i. and ii.
Bacon—*Essays*, i. to xx. inclusive.
Sidney—*Defence of Poesie*.
History of English Literature, 1579–1616.
English Composition.

v. *Logic* (50), . . . Deductive Logic.

B.—*Science Scholarships of the Third Year.*

Subjects:

i. *Mathematics.*
ii. *Mathematical Physics.*
iii. *Experimental Physics.*
iv. *Chemistry.*
v. *Natural History.*
vi. *Geology* (including Mineralogy and Physical Geography).

Detailed Courses:

[The maximum mark is attached to each subject].

i. *Mathematics* (140), Algebra and Theory of Equations, including Series, Determinants, Probability, and the solution of Cubic and Biquadratic Equations.
Plane Geometry and Elementary Solid Geometry.
Plane and Spherical Trigonometry.
Analytical Geometry, including Trilinear Co-ordinates, and the discussion of the General Equation of the Second Degree.
Differential and Integral Calculus.

ii. *Mathematical Physics* (100), Mechanics, Hydrostatics, Geometrical Optics, and Astronomy, as treated by the simpler mathematical methods.

iii. *Experimental Physics* (100), The Course for this Examination includes that for the Science Scholarship of the Second Year; but a more extensive knowledge of the subject is required. In addition Candidates are required to show proficiency in Physical Manipulation and Measurements.
Schuster and Lee's Practical Physics is recommended.

iv. *Chemistry* (100), Lecture Course prescribed for Arts Students of the Second Year. (See page 46).

v. *Natural History* (100), Subject of Natural History Lectures and Practical Biology Demonstrations of Second Year Arts.
Students are recommended to read A. Thomson's Zoology, Marshall and Hurst's Practical Biology, Vines' Botany.

vi. *Geology, Mineralogy, and Physical Geography* (100), . . Subjects of Geological Lectures delivered to Second Year Arts Students. Geikie's Class Book. Dana's Class Book of Mineralogy. Gregory's Physical Geography.

Candidates must answer in two, may answer in three, but not more of the foregoing subjects.

2. Faculty of Medicine.

Two Junior Scholarships (value £25 each) are awarded in the Third Year.

For the Courses see page 210.

3. School of Engineering.

One Junior Scholarship (value £20) is awarded in the Third Year.

For the Course see page 212.

V.—JUNIOR SCHOLARSHIPS OF THE FOURTH YEAR.

Faculty of Medicine.

Two Junior Scholarships (value £25 each) are awarded in the Fourth Year.

For the Courses see page 211.

VI.—SENIOR SCHOLARSHIPS.

[For Regulations see p. 147.]

1.—Ancient Classics.

Greek, . . Pindar—*Olympian*, i.–vii.
Aristotle—*Poetics*.
Æschylus—*Agamemnon*, and *Choephoræ*.
Aristophanes—*Frogs*, and *Clouds*.
Translation from an unprescribed author.
Grecian History.
Composition in Greek Prose.
Higher Greek Grammar and Philology.

Latin, . Tacitus—*Annals*, i.–iv.
Lucretius—*Book* ii.
Plautus—*Trinummus*, *Menaechmi*.
Cicero—*Ad Atticum*, xi.–xiii.
Virgil—*Aeneid*, vii.–ix.
Horace—*Odes*, ii. and iii.
Persius—*Sat.* 1, 2, 3, 5, 6.
Roman History. B.C. 31 to A.D. 68 (*Students' Roman Empire*).
Latin Prose Composition.
Advanced Latin Grammar and Philology.

2.—Modern Languages and Modern History.

(i.) *English*, . . Chaucer—*The Prologue*.
Shakspere—*Twelfth Night* and *King John*.
Bacon—*Advancement of Learning*, *Book* ii., Chaps. 1–21.
Wordsworth—*M. Arnold's Selections*.
Byron—*M. Arnold's Selections* (including Preface).
Burke—*Speech on American Taxation, and Speech on Conciliation with America*.
Coleridge—*Lectures and Notes on Shakspere* (Bohn's Series, pp. 183–394).
Thackeray—*English Humourists of the Eighteenth Century*.
Cowper—*Task*.
History of English Literature, 1800–1850.
English Essay.

(ii.) Any two of the following:—*French, German, Italian.*

French, . .	Taine—*L'Ancien Régime*, ii., iii., iv. Fénelon—*Lettre à l'Académie.* Corneille—*Le Cid, Cinna, Polyeucte.* Moliere—*Les Femmes Savantes.* Buffon—*Discours sur le style.* Darmesteter et Hatzfeld—*Tableau de la Littérature au seizième Siècle.* French Literature during the 17th and 18th centuries. Elements of the History of the French Language. Translation from English into French.
German, . .	Schiller—*Die Braut von Messina.* Goethe—*First Part of Faust.* Halm—*Griseldis.* Goethe und Schiller—*Briefwechsel*, year 1794-5. History of German Literature of the 17th Century. Elements of the History of the German Language. Translation from English into German.
Italian, . .	Dante—*Il Purgatorio.* Monti—*In Morte di Ugo Basseville, In Morte di Lorenzo Mascheroni.* Manzoni—*I promessi Sposi.* Gino Capponi—*Storia della Republica di Firenze*, books 1, 2. Translations from English into Italian. Elements of the History of the Italian Language. History of Italian Literature from the death of Boccaccio to Tasso.
(iii.) *Modern History*,	History of Great Britain and Ireland from 1589 to 1815. History of France during the same period.

3.—Mathematics.

In addition to the Mathematical Course appointed for Science Scholarships of the second year:—

The Theory of Algebraical Equations, including their numerical solution.

Analytical Geometry of two and of three dimensions.

Differential and Integral Calculus, including applications to Geometry.

Differential Equations.

4.—Natural Philosophy.

Mathematical Physics—

Statics, with the Elementary Theory of Attractions.
Dynamics of a Particle.
The Elementary Principles of the Dynamics of Rigid Systems.
Hydrostatics.
Geometrical and Physical Optics.
Spherical Astronomy.

Experimental Physics—

The subjects treated in Everett's Translation of Deschanel's Natural Philosophy, Preston's Theory of Light, Preston's Theory of Heat, Fleming's Alternate Current Transformer, Part I., and Ewing's Magnetic Induction.

Candidates will be required to show a practical knowledge of the use of Physical apparatus.

5.—Metaphysical and Economic Science.

(A) *Metaphysics—*

(i.) Object, methods, and chief divisions of Metaphysics

(ii.) Notion of Being. Conceptions of Existence, Essence, Substance. Quality, Accident, Nature, Subsistence, Personality, Unity, Number, Identity, Diversity, Simplicity, Extension, Quantity, Space, Duration, Finite, Infinite; Relation; Possibility; Cause and Effect.

(B) *Psychology—*

(i.) Enumeration and Analysis of Psychological Phenomena, as Consciousness, Sensation, Imagination, Remembrance, Judgment, Reasoning, Appetite, Emotion, Volition, Freedom of Will.

(ii.) Subject, Object, and their relation in cognition. Perception, Conception. Laws of mental development, and Association of mental phenomena. The Nature and Properties of the Human Mind; mutual relations of the Mind and Body. Immortality.

(C) *Outlines of the History of Philosophy*, from Descartes to Kant (inclusive).

Candidates will be required to answer on the above Course—

Either (A) according to the principles of the philosophy of Aquinas [as expounded in Zigliara's *Summa Philosophica in usum Scholarum* or other similar treatise.]

Or (B) according to the principles of Sir W. Hamilton's Psychological and Metaphysical system; with special reference to Hamilton's Lectures on Metaphysics, Lectures XVI. to XL., and Notes A, B, C, in his edition of Reid, excluding the merely historical matter contained in those notes.

Jurisprudence—

Austin—*Jurisprudence* (Student's Ed.).
Maine—*Ancient Law.*
Holland—*Jurisprudence.*
Maine—*Early History of Institutions.*
Maine—*Early Law and Custom.*

Economics—

J. S. Mill—*Political Economy.*
Ingram—*History of Political Economy.*
Marshall—*Elements of Economics*, vol. i.
C. S. Devas—*Political Economy.*
Ashley—*Economic History*, Book I.

6.—Chemistry.

(i.) *Theory of Chemistry*—inorganic and organic—

Books recommended:

Roscoe and Schorlemmer's *Treatise on Chemistry*, non-metals and metals
Bernthsen—*Organic Chemistry* (translated by M'Gowan), *or*
Richter—*Organic Chemistry* (translated by Smith).
L. Meyer—*Outlines of Theoretical Chemistry* (translated by Bedson and Williams).
Hjelt—*General Organic Chemistry* (translated by Tingle).

(ii.) *Laboratory Experiments*—Qualitative and simple quantitative (volumetric and gravimetric) analysis—

Books recommended:

Clowes—*Practical Chemistry.*
Fresenius—*Quantitative Analysis*, vol. i. (translated by Vacher), *or*
Clowes and Coleman—*Quantitative Analysis.*

7.—Natural History.

The Examination for the Senior Scholarship in Natural History will consist of three parts:—

I. Dissections.
II. An examination on wet and dry specimens.
III. A written examination on Biology.

Candidates are advised to pay attention to the practical work.

8.—Engineering.

For the necessary qualification of Candidates and the Course prescribed for Examination see pp. 147, 271.

9.—Anatomy and Physiology.

For the conditions of Candidature see p. 147, and 143.

LECTURES.

DAYS AND HOURS OF LECTURES.

Subjects.	Terms.	Mon	Tues.	Wed.	Thrs.	Fri.	Sat.
1st YEAR.							
French (Honour),	1, 2, 3,	10	—	10	—	10	—
French (Pass),	1, 2, 3,	—	10	—	10	10	—
German,	1, 2, 3,	—	—	9	—	—	10
*Italian,	1, 2, 3,	—	—	—	—	—	—
Latin (Pass),	1, 2, 3,	12	—	12	—	12	—
Latin (Honour),	1, 2, 3,	—	11	—	11	—	*
Greek (Pass),	1, 2, 3,	—	2	—	2	—	2
Greek (Honour),	1, 2, 3,	12	—	12	—	12	—
Mathematics,	1, 2, 3,	1	—	1	—	1	—
Mathematics (Honour),	1, 2, 3,	—	1	—	1	—	—
English,	1, 2, 3,	11	—	—	—	11	—
Experimental Physics,	1, 2, 3,	—	12	—	12	—	12
2nd YEAR.							
French,	1, 2, 3,	—	12	—	12	—	—
,, (additional for Honours),	—	—	—	2	—	—	12
†German,	1, 2, 3,	9	—	—	9	—	—
*Italian,	—	—	—	—	—	—	—
†Greek,	1, 2, 3,	—	11	—	11	—	11
Latin,	1, 2, 3,	11	—	—	—	—	—
,, (additional for Honours),	1, 2, 3,	—	10	—	—	11	—
Mathematics (Pass),	1, 2, 3,	—	1	—	1	—	—
Mathematics (Honour),	1, 2, 3,	—	11	—	11	—	11
Logic,	1, 2,	1	—	1	—	—	—
*English Language and Literature,	1, 2, 3,	—	—	—	—	—	—
Mathematical Physics (Honour),	1, 2, 3,	—	—	9	—	—	9
Mathematical Physics (Pass),	1, 2, 3,	10	—	—	—	10	—
Experimental Physics,	1, 2, 3,	—	9	—	9	—	—
Chemistry (Pass and Honour),	1, 2, 3,	12	—	12	—	12	—
Chemistry, Laboratory (Pass or Honour),	3 Mths.	3	—	3	—	3	—
Biology,	1, 2, 3,	—	3	—	3	—	3
Practical Biology (Honour),	3 Mths.	—	—	—	—	—	—
Physiology,	1, 2,	9	—	9	—	9	—
Mineralogy and Geology,	1, 2,	10	—	10	—	10	—
*Practical Physics,	2, 3,	—	—	—	—	—	—

* At hours and on days to be arranged.
† Honour Students receive special instruction.

DAYS AND HOURS OF LECTURES—*continued.*

Subjects.	Terms.	Mon.	Tues.	Wed.	Thrs.	Fri	Sat.
3rd YEAR.							
Zoology or Botany,	1, 2, 3,	—	3	—	3	—	3
*Practical Biology (3 Months) Honour,	—	—	—	—	—	—	—
Physiology,	1, 2,	9	—	9	—	9	—
*Chemistry (Honour),	1, 2, 3,	—	—	—	—	—	—
*Chemistry, Laboratory (Honour)	1, 2, 3,	—	—	—	—	—	—
*English Language & Literature,	1, 2,	—	—	—	—	—	—
Metaphysics,	1, 2,	—	1	—	1	—	—
*History,	1, 2,	—	—	—	—	—	—
Logic,	1, 2,	—	12	—	12	—	—
French,	1, 2, 3,	—	—	—	11	—	11
German,	1, 2, 3,	—	11	—	—	11	—
*Italian,	1, 2, 3,	—	—	—	—	—	—
Latin,	1, 2, 3,	10	—	10	—	10	—
,, (additional for Honours)*	1, 2, 3,	—	—	—	—	—	—
Greek,	1, 2, 3,	11	—	11	—	11	—
*Ethics,	—	—	—	—	—	—	—
*Political Economy,	1, 2,	—	—	—	—	—	—
Mathematics (Pass),	1, 2, 3,	—	11	—	11	—	11
Mathematics (Honours),	1, 2, 3,	—	12	—	12	—	12
Mathematical Physics,	1, 2, 3,	—	10	—	10	—	10
Experimental Physics (Honour),	1, 2, 3,	11	—	11	—	—	—
*Practical Physics,	2, 3,	—	—	—	—	—	—
†Mineralogy and Geology,	1, 2,	10	—	10	—	10	—
*History of Philosophy,	1, 2,	—	—	—	—	—	—
*Civil and Constitutional History							
*Jurisprudence,							
4th YEAR.							
For Post-Graduate Classes see various Departments.							

* At hours and on days to be arranged.

† Honour Students receive special instruction.

COURSES OF LECTURES.

Faculty of Arts.

[*The Course of Study extends over three Sessions.*]

PRESCRIBED PASS COURSES.

For Students of the First Year.

I. Latin.
II. Any one of the following:—Greek, French, German, Italian
III. English Language and Literature.
IV. Mathematics.
V. Experimental Physics.

Students may substitute Honour Courses in Latin, Greek, Mathematics, and Modern Languages for the Pass Courses in these subjects.

For Students of the Second Year.

I. Latin.
II. Greek.
III. English Language and Literature.
IV. Any one of the following languages:—French, German Italian.
V. Logic (Two Terms).
VI. Mathematics.
VII. Mathematical Physics.
VIII. Experimental Physics.
IX. Chemistry.
X. Natural History.
XI. Geology (including Mineralogy and Physical Geography.)

Students must attend in four of the foregoing subjects, one of which must be Latin or Mathematics.

Honour Students may take Honour for Pass Courses in any of the subjects, and a Fifth (optional) Honour Course.

For Students of the Third Year

I. Latin.
II. Greek.
III. English, and any one of the following languages:—French, German, Italian.
IV. Logic, and either Metaphysics, Ethics, History of Philosophy, or Political Economy.
V. Mathematics.
VI. Mathematical Physics.
VII. Experimental Physics.
VIII. Chemistry.
IX. Physiology.
X. Zoology and Botany.
XI. Geology (including Mineralogy and Physical Geography.)

Students may attend, at their option, in any one of the following groups of subjects:—

A. (1) Latin; (2) Greek; and (3) any one other of the above subjects.
B. (1) Latin; (2) Logic, Metaphysics, with History of Philosophy; and (3) either Ethics or Political Economy.
C. (1) Mathematics; and (2) (3) two others of the above subjects, one of which must be one of those enumerated under heads VI. to XI.

Or Honour Lectures in any one of the following Groups:—

I. Latin and Greek Languages and Literature.
II. English, and any two of the following languages:—French, German, Italian.
*III. Logic, Metaphysics, Ethics, and History of Philosophy.
IV. Civil and Constitutional History, Political Economy, and General Jurisprudence.
V. Mathematics and Mathematical Physics.
VI. Mathematical and Experimental Physics.

Or Honour Lectures in any two of the following subjects:—

I. Experimental Physics.
II. Chemistry.
III. Physiology.
IV. Botany and Zoology.
V. Geology.

Provided that no person attending Physiology shall be allowed to take Geology as his second subject.

[For the regulations as to University Examinations in Arts, see Appendix.]

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* Any Candidate selecting Group No. III. will be at liberty to substitute for Ethics any one of the three subjects included in Group No. IV.

I.—GREEK.

The books to be read in the Greek class-room for Session 1898–9 will be selected so as to prepare students for the several Examinations in the Royal University and corresponding Examinations.

Students of the *First Year* will read—

In *Pass* Class—Homer, *Od.*, 5, 6, 7; Demosthenes—*Olynthiacs.* Greek *History* from B.C. 560 to B.C. 429; Greek *Literature*—Lyric Poets—Life in the Homeric Age, and Outlines of the Homeric Controversy; *Antiquities* (Gow., chaps. x., xi., xix.).

In *Honour* Class, in addition to the above, Euripides, *Bacchae;* Herodotus, Book 9; Plato—*Menon.*

The *Pass* Class meets at 2 P.M. on Tuesdays, Thursdays, and Saturdays; the *Honour* Class at 12 noon on Mondays, Wednesdays, and Fridays during three terms.

Students of the *Second Year* will read—

In *Pass* Class—Sophocles, *Oed. Rex;* Thucydides, Book 4; *History,* from 431 to 387 B.C.; *Literature,* History of the Drama, The Historians; *Antiquities* (Gow, chaps. xii.–xv., xviii., xx., xxi.):

In *Honour* Class, in addition to the above—Homer, *Iliad,* 16, 21, 22; Sophocles, *Antigone* and *Oed. Col.;* Plato, *Phaedo. Literature*—(*Grote,* chaps. 58–62, Abbott's *Pericles,* Jebb's *Homer,* Jevons' *Hist. of Greek Literature,* Part 1, Book 3).

The Class meets at 11 A.M. on Tuesdays, Thursdays, and Saturdays.

Students of the *Third Year* will read—

In *Pass* Class—Jebb's Selections from the Attic Orators—*Antiphon, Andocides, Lysias;* Demosthenes, *De Falsa Legatione;* Aeschylus, *Eumenides.* Special Portions of History, Literature, and Antiquities.

In *Honour* Class, in addition to the above, Aristotle, *Poetics;* Aesch., *Ag.* and *Cho.;* Aristoph., *Frogs* and *Knights;* Theocr., 1, 2, 3, 6, 7, 9, 10,; Pindar, *Olymp.*, 1–7.

The Class meets at 11 A.M. on Mondays, Wednesdays, and Fridays.

Obs.—The hours of attendance may possibly require readjustment; as, for instance, if Pass Students in the Second or Third Year should present themselves.

In all the years Students are exercised in Prose Composition. The required portions of Greek History and Antiquities are also studied.

All Students must provide themselves with annotated text-books such as are published by the leading booksellers for use in schools and colleges; with a Greek Grammar and a copy of the smaller edition of King and Cookson's "Introduction to the Comparative Grammar of Greek and Latin."

Students will have at their disposal in the Library the larger and more expensive editions of the works that are studied in class-room. They will also there find Dictionaries, Lexicons, Dictionaries of History, Geography, Antiquities; in fact, all the requisite works for general reference. Books of general reference can only be consulted in the Library. Books not of general reference may be borrowed for home-study.

II.—LATIN.

Lectures are delivered during three terms on the *Language* and *Literature* of Ancient Rome. Special portions of the *History* and *Antiquities* are studied in connection with the authors read. *Latin Prose Composition*, taught orally as well as by written exercises, forms an important part of each Course. Arrangements are made for the instruction in writing *Latin Verse* of such Students as are anxious to cultivate the art. The elements of *Classical Philology* and *Textual Criticism* are part of the work of the senior classes.

The Books read in class are chosen with a view to the requirements of Students who are preparing for Examinations in the Royal University of Ireland.

Lectures for Students of the First Year:—

(*a*) The *Pass* Class meets on Mondays, Wednesdays, and Fridays, during three terms, at 12 noon.

Books appointed for Session 1898–9:—Livy, Book xxxiii. Horace, *Epistles*, i., ii. Roman History, A.U.C. to 133 B.C. (Pelham, Rivington's.) Literature (Wilkins' Primer).

(*b*) Additional Lectures for ***Honour*** Students are delivered on Tuesdays and Thursdays, at 11 A.M.

Books appointed for Session 1898–9:—Virgil—*Eclogues* and *Georgics*, i. Horace, *Odes*, i. Cicero—*Pro Sulla*. History—From 241 to 196 B.C. (*Mommsen*). Antiquities—Ramsay, chaps. ii.–vi. Literature (*Cruttwell*, Book II., Part i.)

[These Lectures include the Courses prescribed for the First Year's Examination in the Royal University, for the Sessional Examination in Q. C. G., and for the Latin portion of the Second Year's Literary Scholarship in Q. C. G.]

Lectures for Students of the Second Year:—

(*a*) The class meets on Mondays and Wednesdays at 11 a.m.

The special books appointed for the Session 1898–9 are:—

Cicero—*Tusc. Disp.* i.; Tacitus—*Germania*; Juvenal—*Satires*, 1, 3, 5, 12, 14,; History of the period from A.D. 68 to 138 (Student's Roman Empire). Antiquities—The Public Lands, Financial Administration of the Republic; Law and Justice; Roman Money; Roman Measures (Ramsay, chaps. 7, 8, 9, 13, and Roby L. G. i., App. D). Literature, from A.D. 14 to A.D. 117 (Cruttwell).

(*b*) Additional Lectures for ***Honour*** Students are delivered on Tuesdays at 10 a.m., and Fridays at 11 a.m., when the following will be studied:—*Lucretius*, v.; Martial—Books ix.–xii. (Stephenson's edition); Cicero—*In his Letters*, xli. to lxxx. (Tyrrell's edition); Tacitus—*Hist.* iii., iv., v. The special Honour course in History is Mommsen, *Provinces of the Roman Empire*, vol. i., pp. 1–194 (Eng. Trans.) Literature and Antiquities.

[These Lectures include the Courses prescribed for the Second Year's Examination in the Royal University for the Sessional in Q. C. G., and for the Latin portion of the Third Year's Literary Scholarship Q. C. G.]

Lectures for Students of the Third Year:—

The class meets at 10 a.m. on Mondays, Wednesdays, and Fridays, and arrangements are made for additional Lectures for ***Honour*** Students. The subjects of Lecture during the Session 1898–9, will be:—Virgil—*Æneid*, vii.–ix.; Horace—*Odes*, i. and iv.; Tacitus—*Annals*, i., ii., xiii., xiv.; Lucretius, Book v.; Plautus—*Trinummus* and *Rudens*; Cicero—*Ad Atticum*, x.–xii.; Persius (omitting *Sat.* iv.); History, B.C. 31 to A.D. 68 (Student's Roman Empire); Mommsen—*Provinces of the Roman Empire*, vol. i. (Eng. Trans.); Literature—The Poets of the Republic, and the Historians to Tacitus; Antiquities—Law and Justice; Religion, The Calendar; the Military and Naval Organisation of the Republic (Ramsay, chaps. 9 to 12.)

[These Lectures embrace the Courses prescribed for the Royal University B.A. Examination for the Sessional of the Third Year in Q. C. G., and for the Senior Scholarship in Q. C. G.]

[Arrangements may be made with the Professor for additional Lectures if necessary.]

Students are expected to provide themselves with texts and the ordinary editions for College use in class. The larger modern editions and Books of Reference may be consulted in the Library. For *Pass* Students of the *First* Year, Bradley's edition of Arnold's *Latin Prose Composition* is used as a basis of instruction in Prose Composition; for all the other classes Bradley's *Aids to Latin Prose Composition.*

III.—MATHEMATICS.

Instruction is given in this department by means of Lectures. Students are expected to prepare for the Lectures by reading, and also to work out the examples set in the classes to the best of their ability. The Lectures are adapted for those preparing for the Examinations of the Royal University in their respective years.

The Courses in the Faculty of Arts are as follows:—

I. For all Students of the First Year—

Elements of Plane Geometry, Algebra and Plane Trigonometry.

II. For Honour Students of the First Year, and Pass Students of the Second Year—

Elements of Solid Geometry; Plane and Spherical Trigonometry; Elements of the Theory of Equations and of Analytical Geometry.

III. For Honour Students of the Second Year, and Pass Students of the Third Year—

Algebra and Trigonometry; Analytical Geometry; Differential and Integral Calculus; Theory of Equations.

IV. For Honour Students of the Third Year—

Analytical Geometry of Two and Three Dimensions Differential and Integral Calculus; Differential Equations.

A Class may be arranged with the Professor for Students reading the Course in Mathematics for the M.A. Degree in the Royal University.

An additional Course of Lectures is given by the Senior Scholar to Pass Students of the First Year.

The College Library contains a large collection of standard mathematical works and Journals, to which regular additions are made. The following may be mentioned, in addition to the usual text-books:—

Works of *Lagrange, Jacobi, Gauss, Cayley, &c., Journals of Crelle and Liouville, Acta Mathematica, Quarterly Journal of Mathematics, Jahrbuch der Fortschritte der Mathematik.*

IV.—NATURAL PHILOSOPHY.

[In this Department Courses of Study are pursued in both Experimental Physics and Mathematical Physics.]

A.—Experimental Physics.

Instruction in this subject is imparted by means of Lectures illustrated by experiments, by the use of suitable text-books, and by Courses of practical work in the Laboratory.

Lecture Courses.—Separate Courses of Lectures are given to Students of the First, Second, and Third Years.

The Class for Students of the *First Year* meets on three days of the week during the whole Session. The Lectures are designed to give Students in Arts, Medicine, and Engineering a thorough grounding in the general principles of *Mechanics, Hydrostatics, Heat, Sound, Light, Magnetism,* and *Electricity,* and are adapted for those preparing for the First University Examinations of the Royal University of Ireland, and similar Examinations. Special attention is given to the subjects of *Heat, Light,* and *Sound,* to meet the requirements of those intending to compete for Honours at the First University Examination in Arts.

The Class for Students of the *Second Year* meets on two days of the week during the whole Session. The subjects chosen are those prescribed for the Second University Examination in Arts of the Royal University. These subjects are dealt with as completely as the Mathematical attainments of the Class will permit.

The Class for Students of the *Third Year* meets on two days of the week during the whole Session for Pass Students, and an additional Lecture every week is delivered to those who intend to compete for Honours at the B.A. Examination of the Royal University. The subjects chosen are those prescribed for this Examination, and the Lectures aim at making Students familiar with the present state of physical science, and with the results and methods of modern physical research. A Class may also be arranged with the Professor for Students reading the M.A. Honour Course of the Royal University.

Text-Books.

The Text-books recommended for the First Year Course are the Cambridge Natural Science Manuals, by R. T. Glazebrook.

For the Second Year Course the Text-books recommended are Deschanel's Natural Philosophy, edited by Professor Everett, Joubert's Electricity and Magnetism, and Balfour Stewart's Heat.

For the Third Year Course the Text-books recommended are Deschanel's Natural Philosophy, edited by Professor Everett; Preston's Theory of Light; Preston's Theory of Heat; Fleming's Alternate Current Transformer, vol. i.; Maxwell's Heat; Cours de Physique, by J. Violle; Ewing's Magnetic Induction.

Laboratory Courses.—Separate Courses of practical instruction in the Laboratories, at which the Demonstrator assists, are given to Students in the Faculties of Arts, Medicine, and Engineering. These Courses, which are continued for three months of the Session, are designed to prepare Students for the Examinations in Practical Physics of the Royal University, and similar Examinations; but facilities are afforded to Students desirous of pursuing a more extended course of practical work. The Physical Laboratories are supplied with electrical power from the Galway Electric Light Company's Station, and provided

with storage batteries, continuous current dynamo, alternator, and transformer. The Museum of Natural Philosophy, in connection with the Laboratories, contains a very complete collection of physical apparatus suitable for lecture illustration and research work.

B.—Mathematical Physics.

Instruction in this subject is imparted by means of Lectures and by the use of text-books.

Lecture Courses.—Three Courses of Lectures are delivered extending over the whole Session—one to Pass Students of the Second Year, one to Honour Students of the Second Year, and one to Honour Students of the Third Year. Pass Students of the Third Year attend the Honour Course of the Second Year. A Class for Students reading the M. A. Honour Course of the Royal University in Mathematical Physics may be arranged with the Professor. An additional Course of Lectures is given by the Senior Scholar to Pass Students of the Second Year.

The subjects treated in the Courses of the Second Year are those branches of Mathematical Physics prescribed for the Second University Examinations of the Royal University in Arts and Engineering. The Third Year Course includes those branches of Mathematical Physics, prescribed by the Royal University for the Degrees of B.A. and B.E. with Honours.

Text-Books.

The Text-books recommended for the Second Year Courses are, Loney's Mechanics and Hydrostatics for Beginners, Loney's Treatise on Elementary Dynamics, Greaves' Statics, Heath's Elementary Optics, Greaves' Hydrostatics, Parker's Astronomy.

For the Third Year Course, the following Text-books are recommended:—Routh's Statics, vols. i. and ii.; Williamson and Tarleton's Dynamics, Routh's Elementary Rigid Dynamics, Heath's Geometrical Optics, Besant's Hydromechanics, Part I.; Godfray's Astronomy, Frost's Newton.

Library:—The College Library contains a large collection of standard works on the various branches of Mathematical and Experimental Physics, and their allied subjects, and receives many British and foreign scientific periodicals and journals.

V.—HISTORY AND ENGLISH LITERATURE.

Lectures on *English* to *First Year* Students are delivered during the whole Session on Mondays and Fridays, at 11 a. m.

The Lectures in *English Language and Literature* for Students of the *Second Year* are given during the three terms.

In the *Third Year*, Lectures on *English Language and Literature* are given during two terms.

In addition to Lectures of a more or less formal character on the successive movements of English Literature, and on the lives and writings of the more eminent or representative Poets and Prose writers of each period, the Books prescribed for the Examinations of the Royal University form the subject of special study.

The Students are also exercised in writing essays.

In *History*, the Course includes the History of Great Britain and Ireland, and of France, from 1589 to 1815.

VI.—MENTAL SCIENCE.

Logic.—The Courses of Lectures for *Second* Year's Students are delivered during two terms, at 1 p.m., on Mondays and Wednesdays.

The Lectures for *Third* Year's Students extend over two terms, and are delivered, at 12 o'clock noon, on Tuesdays and Thursdays.

METAPHYSICS.—Lectures are delivered during two terms, at 1 p.m., on Tuesdays and Thursdays.

The Course includes discussions on the principles of Psychological and Metaphysical Science, with a critical review of the principal Philosophical systems from Descartes to Kant.

The days and hours for Lectures in *Ethics* are arranged at the beginning of the First Term in each Session.

In the various Courses of Lectures, the portions of the subjects for each class are chosen to meet the requirements of Students who are preparing for Examination in the Royal University, and special arrangements may be made for Students who are studying for other public Examinations.

VII.—CHEMISTRY.

Chemistry is studied throughout the Session: (1), by means of Lectures in which an acquaintance is made with the chief facts upon which the science is based, by experiments performed on the Lecture-table. These are carefully observed and their scientific bearing considered; (2), by experiments conducted by the Students themselves, each working independently in the laboratory, under the supervision of the Professor or Demonstrator; (3), by the use of text-books; by reference to the Dictionaries of Chemistry, and to the Chemical Journals which are available in the Library, and by inspection of the collections in the Chemistry Museum.

(1) LECTURE COURSES.

(*a*) *Second Year's Course for Pass and Honours. Inorganic Chemistry.*—The class meets at 12 o'clock on Mondays, Wednesdays, and Fridays throughout the Session, but attendance is not required on Wednesdays, between the Christmas

recess and the close of Medical Lectures. The Lectures embrace a consideration of the leading facts of Inorganic Chemistry, and include both the Pass and Honour subjects required for the Second University Examination in Arts of the Royal University, or for other corresponding Examinations.

About forty Lectures are devoted to a detailed study of the non-metallic elements, their reactions, and the constitution of the compounds they form. The remaining Lectures embrace a review of the general facts established, including the weight and volume relation in chemical reactions, the molecular hypothesis, the atomic hypothesis, the relative weight of molecules and atoms, and the periodic law. The leading metals and their more important compounds are also briefly considered.

(*b*) *Third Year's Course for Honours.— Organic Chemistry.*— A class in Advanced Organic Chemistry, adapted to the requirements of the B.A. *Honour* Examination of the Royal University, will, if required, be formed to meet throughout the Session at hours to be arranged; also a *Fourth Year's* (*Post-Graduate*) *Course for Honours*, to meet the requirements of Students preparing for the M.A. *Honour* Examination of the Royal University. Students wishing to avail themselves of these classes must arrange with the Professor at the beginning of the First Term.

(2) Laboratory Courses, Practical Chemistry.

Students are admitted to the Laboratory at the hours given in the time-table, and at other times by arrangement with the Professor. As far as possible a separate bench is allotted to each Student. These courses of experiment afford a means of acquiring manipulative skill, and of attaining a more intimate knowledge of the science of chemistry.

(*a*) *Second Year's Course for Pass.*—This course consists of about forty Lectures of two hours each, commencing early in the first term, and ending at the close of the second

term. The work done is adapted to the requirements in Practical Chemistry of the Pass Second Examination in Arts. A *Second Year's Course for Honours*, adapted to the Honour Second Examination in Arts of the Royal University, will be arranged for Students who desire it.

(*b*) *Third Year's Course for Honours.*—This Course is arranged to meet the requirements of the B.A. *Honour* Examination of the Royal University and of other corresponding Examinations. The Class works throughout the Session at hours to be arranged. Fee, five pounds. A shorter Course of three months' work may also be arranged for Students sufficiently advanced, for which the fee is three pounds; also *Fourth Year's* (*Post-Graduate*) *Courses for Honours* will be organized, if desired, to meet the requirements of Students preparing for the M.A. *Honour* Examination of the Royal University, or for other Examinations. These Classes will commence work at the beginning of the Session. Post-Graduate Courses may also be arranged in other departments of Pure or Applied Chemistry to meet individual requirements. Fee, five pounds.

(3) Text-Books, Chemistry Department of Library, Chemistry Museum.

(*a*) *Text-Books recommended.*—For Second Year Lecture Course:—

Thorpe, Inorganic Chemistry, 2 vols.; Roscoe, Elementary Chemistry; or Richter, Inorganic Chemistry (trans. Smith).

For Third Year Honour and Post-Graduate Lecture Courses:—

Roscoe and Schorlemmer, Treatise on Chemistry, vol. i.; Richter, Organic Chemistry (trans. Smith); Bernthsen, Organic Chemistry (trans. M'Gowan); Nernst, Theoretical Chemistry (trans. Palmer); Hjelt, Principles of General Organic Chemistry (trans. Tingle); L. Meyer, Outlines of Theoretical Chemistry (trans. Bedson and Williams).

For Laboratory Courses :—

Qualitative Analysis—Clowes and Coleman, Elementary Qualitative Analysis, or Clowes, Practical Chemistry. For Quantitative Analysis—Fresenius, Quantitative Analysis, vol. i. (trans. Vacher), or Clowes and Coleman, Quantitative Analysis ; Hempel, Gas Analysis (trans. Dennis). For Preparations—Fischer, Organic Compounds (trans. Kling) ; Gattermann, Practical Methods of Organic Chemistry (trans. Shober) ; Lassar-Cohn, Manual of Organic Chemistry (trans. Smith) ; Reynolds, Experimental Chemistry, 4 vols.

(*b*) *Chemistry Department of Library.*—Chief works of reference :—

Morley and Muir ; Watt's Dictionary of Chemistry ; Thorpe, Dictionary of Applied Chemistry ; Beilstein, Organische Chemie ; Roscoe and Schorlemmer, Treatise on Chemistry ; V. Meyer, and Jacobson, Lehrbuch der Organischen Chemie ; L. Meyer, Modern Theories of Chemistry (trans. Bedson) ; Ostwald, Lehrbuch der Allgemeinen Chemie ; Kopp, Geschichte der Chemie ; E. Meyer, History of Chemistry (trans. M'Gowan) ; Comey, Dictionary of Solubilities ; Allen, Commercial Organic Analysis.

Principal Journals containing original Memoirs :—

Journal of the Chemical Society ; Liebig's Annalen der Chemie ; Berichte der Deutschen Chemischen Gesellschaft ; Chemisches Central-Blatt ; Zeitschrift für Physikalische Chemie ; Annales de Chemie et de Physique ; Journal of the Society of Chemical Industry ; Chemical News.

(*c*) *Chemistry Museum.*—A collection has been arranged of specimens of elements, inorganic and organic compounds, and of native minerals. These collections are available for inspection by students at all times when the Laboratory is open.

VIII.—NATURAL HISTORY.

The Department of Natural History comprehends the Sections of Zoology, Botany, Practical Biology, Geology, Mineralogy, and Physical Geography.

1. Zoology.

The Class in Zoology meets at 3, on Tuesdays, Thursdays, and Saturdays, during the months of November, December, January, and February. The Course consists of at least forty Lectures.

Introduction—The Kingdoms of Nature. The Characters of Organized Bodies. Protoplasm. Cells. Tissues. Organs. Development. Classification of Animals. Distribution in Time and Space. Theories of Evolution. The Anatomy, Physiology, and Life-History of selected types. Systematic Zoology.

The Museum.

This Museum contains a series of specimens illustrating the Animal Sub-Kingdoms. The specimens are arranged in a series, commencing with the simpler and proceeding to the higher Forms. Disarticulated Skulls, Glass and Papier-Maché Models may be used by the Students. A revolving Microscope, Panoramic Diagrams, and Dissected Specimens of Animals are included in the Collection.

Text-Books.

Thompson's Zoology, Nicholson's Zoology, Packard's Zoology, Claus' Zoology (translated by Sedgwick), Gegenbaur's Anatomy (translated by Bell), Wiedersheim's Anatomy, Huxley's Vertebrata and Invertebrata.

Works of Reference.

Cuvier's Anatomy, Owen's Anatomy, Bronn's Thier-Reich, Brühl's Anatomy, Yung's Anatomie, Brehm's Thierleben.

Journals.

Journ. Zoological Society, Journ. Linnean Society, Challenger Reports, The American Naturalist, Annales des Sciences Naturelles. Kolliker's Zeitschrift für Wissenschaftliche Zoologie, Gegenbaur's Morphologisches Jahrbuch, Journ. of Marine Biological Association, Zoologischer Jahresbericht, Naples; Zoologische Jahrbücher, Spengel.

2. Botany.

The Course in Botany extends over three months. The Class meets on at least three days in the week at 3 o'clock. The Lectures will embrace :—

Definitions. Plant Life; Histology and Physiology. Morphology, Systematic Botany, Cryptogams and Phanerogams.

Text-Books.

Vines' Botany Prantl (trans. by Vines), Behren's Botany (trans. by Geddes), Thomé's Botany, Sach's Physiology of Plants, Goebel—Outlines of Classification and Special Morphology of Plants (trans. by Garnsey), Vines' Physiology.

Works of Reference.

Leunis' Synopsis, Endicher and Bentley's Works, Grenville's Scottish Flora.

Journals.

Just's Botanischer Jahresbericht, Annales des Sciences Naturelles, Linnean Society's Journal, and Transactions.

3. Biology.

This Class meets on two or three days each week during the first three months of the Session.

During this Course the following Animals are dissected by the Students:—the Rabbit, Pigeon, Frog, Codfish or Dogfish, Sepia, Snail, Mussel, Blatta, Crayfish or Lobster, Cockroach, Earthworm, Leech, Hydra; Microscopic preparations of the organs are examined, fresh or preserved. The Plants studied are (*a*) Flowering Plant, Arabis or Wallflower, Tulip; (*b*) The Fern; (*c*) Chara, Penicillium, Mucor, Yeast. Sections of stems, leaves, roots, and flowers are made by the Students, who are expected to make drawings.

Third Year.—Honour Students meet on an extra day in the week, and are supplied with other specimens in addition to the above. All animals are supplied to the Students free of cost. Dissections take place under the superintendence of the Professor of Natural History and the Assistant in Biology.

Text-Books.

The Practical Biology of Marshall and Hurst. The Practical Biology of Huxley and Martin. Marshall's Frog. Bower and Vines' Practical Works on Botany.

4. Mineralogy, Geology, and Physical Geography.

Lectures on Mineralogy, Geology, and Physical Geography are delivered during the First and Second Terms. The Class meets on Mondays, Wednesdays, and Fridays at 10 A.M.

The Lectures will embrace:—

(A.) MINERALOGY.—Crystallography. Physical Characters and Chemical Constitution of Minerals. Classification.

Text-Books.

Dana's Text-book of Mineralogy, Dana's Class-book of Mineralogy. Rutley's Rocks. Bauermann's Mineralogy. Nicol's Mineralogy. Garney—Crystallography.

Works of Reference.

Die Mikroskopische Beschaffenheit der Mineralien und Gasteine. Dana's System of Mineralogy. Miller's Mineralogy.

Journals.

The Mineralogical Magazine. Bulletin de la Société française de Mineralogie. Neues Jahrbuch f. Mineralogie u. Geologie.

(B.) GEOLOGY.—Definitions—The Materials of the Earth's Crust. The General Structure and the Size of the Earth. The Density of the Earth. Comparison with other Heavenly Bodies. The Nebular Hypothesis. The Rotation of the Earth. The Effects of the Sun and Moon on the Earth. Underground Temperature. Temperature of the outer Crust. Temperature in the Past. Climate. Limitation of Geographical Regions. Process of Denudation. Air. Water. Ice. Process of Depositing. Stratification, Jointing, Dip, Strike, Contortion, Faults, Synclinal and Anticlinal Folds. The Clinometer. Volcanic Agencies.—Active Volcanoes, and Earthquakes. Igneous Rocks, Granites, Porphyries and Volcanic Rocks, Lavas, Tuffs, and Ashbeds. Configuration and Structure. A Classification of Animals and Plants. General Distribution. Biological Theories. Fossils.

Text-Books.

Geikie's Text-book. Geikie's Class-book. Lyell's Student's Elements, Nicholson's Palæontology.

Works of Reference.

Etheridge and Seely—Geology. Prestwick—Geology. Kinahan—Geology of Ireland. Hull—Coalfields. Schimper—Traite de Palæontologie Vegétale. Greene's Geology. Jukes Browne—Geology.

Journals.

The Geological Magazine. Palæontologie française. Quarterly Journal of the Geological Society. The Transactions of the Palæontological Society.

(C.) Physical Geography.—The Earth. General Geographical Considerations, Continents, Islands, Varieties of Land Surfaces, Proportion of Land to Water, Rivers, Lakes, Water in Interior of Earth, Snow, Ice, The Atmosphere, Winds, Climate, Weather, Volcanos, Earthquakes.

Text-Books.

Geikie's Physical Geography, Haughton's Physical Geography, Young's Physical Geography, Ansted's Geography.

Works of Reference.

Thompson's Voyage of the Challenger, Wallace's Australasia, Wallace's Island Life, Darwin's Beagle, Stansford's Compendium, Réclu's Universal Geography; also the works of Baker, Burton, Cameron, Cook, Kane, Livingstone, M'Clintock, and M'Clure. Prevalsky—Mongolia.

Journals.

The Geographical Journal, Geographical Magazine, Journal of Geographical Society of London.

The Museum of Mineralogy and Geology.

The Museum, founded by the late Professor King, contains a series of Fossils illustrating the Geological Formations. The Museum contains also a large collection of Minerals and Ores.

Instruments have been provided for the use of Senior Students and for Class Purposes, including a Goniometer, a Clinometer, a Spectroscope, and an apparatus to illustrate Crystalline forms. A large Globe and several Maps, with the Land Surfaces in relief, are at the disposal of Students.

Senior Students are permitted to work in the Museum on one or two days in each week.

IX.—MODERN LANGUAGES.

Subjects: French, German, Italian.

There are three Classes, for Students of the First, Second, and Third Year of their Academical Course. In each of these Classes separate Lectures for Pass and Honour Candidates will be given. The different Classes meet at the hours set down in the Time Table of the College Calendar. The Lectures are arranged to suit the requirements of Students preparing for the several Examinations in the Royal University and for similar Examinations.

Pass Classes.

The business of these Classes is conducted by Lectures on Grammar and (in the Second and Third Year) on the Elementary History and some particular period of Literature of the language, by translations from and into English, by written exercises and examinations.

Honour Classes.

The Course of Instruction comprises advanced Composition, Translation, Critical Readings, and (in the Second and Third Year) Lectures on the History and Literature of the Romance and Teutonic languages.

The Third Year's Honour Class is conducted in the vernacular of the language which is being studied.

X.—PHYSIOLOGY.

For Course see Faculty of Medicine, page 202.

Faculty of Law.

COURSE OF STUDY.

Courses of Twenty-four Lectures are delivered to each Class, commencing in the First Term, on days and hours that are arranged with the Professors.

The following Course of Study is prescribed :—

First Year.—The Law of Real Property and the Principles of Conveyancing; Jurisprudence.

Second Year.—Equity, Personal Property, Contracts, and Bankruptcy; Civil Law.

Law Classes.

First Year. — *Jurisprudence.* — Course of Twenty-four Lectures in the First and Second Terms.

Books Recommended.

Holland—Jurisprudence.
Austin—Jurisprudence, vol. i. (Campbell).
Maine—Ancient Law.
Early History of Institutes.
Early Law and Custom.

Second Year. — *Roman Law.* — Course of Twenty-four Lectures in the First and Second Terms.

Justinian—Institutes (Sanders).

ARTS CLASSES.

Pass.—Courses of Twenty-four Lectures during the First and Second Terms are delivered on:—

(*a*) POLITICAL ECONOMY.

Books Recommended.

Walker—Political Economy.
Devas—Political Economy.

Honours.—Additional Lectures supplementing the Pass Course.

Books Recommended.

J. S. Mill—Political Economy.
Marshall—Elements, vol. i.
Ingram—History of Political Economy.
Ashley—Economic History, Books I. II.

(*b*) JURISPRUDENCE.—(Honour Course).

Books Recommended.

Holland—Jurisprudence.
Austin—Jurisprudence, vol. i.
Maine—Ancient Law and Early History of Institutions.

EXAMINATIONS.

MATRICULATION.

The same Course as for Arts, page 155.

JUNIOR SCHOLARSHIPS.

One (value £25) tenable by a Student of the FIRST YEAR.

Subjects:

Law of Property, &c.—

Williams—Real Property.
Goodeve—Modern Law of Real Property.

Jurisprudence—

Holland—Jurisprudence.
Austin—Jurisprudence (Student's edition).
Maine—Ancient Law.
Maine—Early Hissory of Institutions.
Maine—Early Law and Custom.

One (value £25) tenable by a Student of the SECOND YEAR.

Equity—

Snell—Principles of Equity.

Law of Property, &c.—

Williams—Personal Property.
Smith—Lectures on the Law of Contract.

Jurisprudence and Roman Law—

Jurisprudence as for First Year's Scholarship.
The Elements of Roman Law.
Mackenzie—*Studies in Roman Law.*

Students intending to proceed for the Certificate of the Law Professors, so as to entitle them to serve an apprenticeship of *four* years instead of *five*, under the provisions of the Attorneys and Solicitors (Ireland) Act, 1886*, are required to enter their names with the Registrar, *either as Matriculated or Non-Matriculated* Students, and pay the necessary College and Class Fees to the Bursar before the commencement of the Law Lectures in each Session.

Such Students are required to attend all the Lectures and pass all the Examinations prescribed for the first and second years of the Course of Study for Candidates for the Diploma of Elementary Law.

For the Degrees of LL.B. and LL.D., see Regulations of Royal University (Appendix).

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* Every person who, as a Matriculated or as a Non-Matriculated Student of the University of Dublin or of any of the Queen's Colleges in Ireland, shall have attended or shall attend any prescribed Lectures, and shall have passed or shall pass any prescribed Examinations of the Professors of the Faculty of Law in the said University of Dublin or in any of the said Queen's Colleges, for a period of Two Collegiate Years, and who shall have duly served as an Apprentice under Indentures for the term of four years, in like manner as by this Act provided respecting the service for the term of five years, shall at any time after the expiration of five years from the commencement of such attendance on Lectures, or of such period of service, which shall first happen, be qualified to be sworn and to be admitted as an Attorney or Solicitor respectively, according to the nature of his service, of the several and respective superior Courts of Law or Equity in Ireland, as fully and effectually to all intents and purposes as any person having been bound and having served five years is qualified to be sworn, and to be admitted or enrolled and registered an Attorney or Solicitor under or by virtue of this Act.—EXTRACT.—29 & 30 Victoria, cap. 84.

Faculty of Medicine.

COURSE OF STUDY AND EXAMINATION.

The attention of Students is specially directed to the absolute necessity for their being registered with the Branch Medical Council not later than fifteen days after the commencement of those Courses of Lectures, certificates of attendance on which they have to produce.

Students who have passed any of the following Examinations can be registered as soon as they have commenced attendance on Medical Lectures :—

The Matriculation Examination of the Royal University.
The Preliminary Examination of the Royal College of Surgeons of Ireland.
The Examination held by the Board of Intermediate Education, provided the Certificate includes all the subjects required by the General Medical Council.

The Curriculum extends over at least five years, and comprises the following* :—

COURSE OF STUDY.

Natural Philosophy.	Practical Physiology.
Practical Physics.	Materia Medica and Pharmacy.
Chemistry.	Theory and Practice of Surgery.
Practical Chemistry.	Obstetrics and Gynæcology.
Botany with Herborizations for practical study, and Zoology.	Theory and Practice of Medicine.
Anatomy and Physiology.	Medical Jurisprudence.
Practical Anatomy.	Pathology.

The "prescribed Courses" are those prescribed to Scholars of the several years (pages 208–212).

* The Regulations of Licensing Bodies whose requirements differ from the above Curriculum may be learned on application to the Professors of the Faculty of Medicine.

DAYS AND HOURS OF LECTURES.

Subjects.	Months.	Mon.	Tues.	Wed.	Thrs.	Fri.	Sat.
French,	VI.	—	10	—	10	—	10
German,	VI.	—	—	9	—	—	9
Botany and Zoology,*	VI.	2†	3	2†	3	2†	3
Natural Philosophy,	VI.	—	12	—	12	—	12
Practical Physics,‡	—	9	—	—	—	9	—
Chemistry (Pass and Honour),	VI.	12	—	12	—	12	—
Chemistry, Laboratory (Pass or Honour),	III.	3	—	3	—	3	—
Physiology,	VI.	9	9	9	9	9	—
Anatomy,	VI.	1	1	1	1	1	—
Practical Pharmacy,	III.	—	3	—	—	—	3
Materia Medica,	III.	—	2	—	2	—	2
Anatomy,	VI.	1	1	1	1	1	—
Practical Physiology, and Practical Histology,	III.	2	—	2	—	2	—
Surgery,	VI.	—	12	—	12	12	—
Midwifery,	VI.	2	—	2	—	2	—
Medicine,	VI.	—	2	—	2	—	2
Pathology,§	III.	—	—	—	—	—	—
Medical Jurisprudence,	IV.	12	—	12	—	—	—
Toxicology,§		—	—	—	—	—	—

Attendance on Lectures is strictly obligatory.

The Lectures of the Professors in the Medical School of Queen's College, Galway, and the Clinical Instruction in the Galway Hospitals, are recognised as qualifying for the Diplomas of the Royal College of Physicians and Surgeons of Ireland, England, and Scotland, and for the Medical Degrees of the University of London, and the Royal University of Ireland.

CLINICAL TEACHING.

Clinical Teaching is carried on in THE GALWAY HOSPITAL, established as a Public General Hospital (in the place of the County Galway Infirmary) by Act of Parliament (1892).

* Students taking Practical Biology and Natural History are admitted to both Classes on payment of a fee of £3.

† These Lectures are delivered in January and February.

‡ The Class in Practical Physics begins at the beginning of the Second Term, and lasts till the end of the Session.

§ At hours to be arranged.

The appointment of the Medical Staff being vested, by the Act, in the Local Government Board, that Board has made the following appointments:—

Physicians—

PROFESSOR KINKEAD.
PROFESSOR LYNHAM.

Surgeons—

PROFESSOR PYE.
PROFESSOR COLAHAN.
PROFESSOR BRERETON.

Gynæcologist—

PROFESSOR KINKEAD.

The interests of Students are expressly recognised and secured by section 2 of the Act, which provides that—

"The Hospital shall be available as a Clinical School for Medical Students attending the Queen's College, and such Students may attend the Hospital at such times, and subject to such regulations, as may be prescribed."

For further information application may be made to—

PROFESSOR PYE,
Hon. Secretary of the Medical Staff of Galway Hospital.

In addition to this, the GALWAY FEVER HOSPITAL* is open to Students of the Clinical Class.

Medical Officers—

PROFESSOR COLAHAN.
M. A. LYDON, L.R.C.S., L.R.C.P. EDIN.

Apothecary—

N. GREALY, L.R.C.S., L.R.C.P. EDIN.

Here opportunities are afforded for studying the various forms of Fever and Zymotic disease admitted during the College Session.

* The Royal University and other Licensing Bodies require a certificate of attendance for three months at an hospital devoted to the treatment of fever.

The Medical Faculty has also made arrangements with the Medical Officers for the admission of Students to the GALWAY UNION HOSPITAL.

Medical Officers—

PROFESSOR COLAHAN, M.D., M.CH.
M. A. LYDON, L.R.C.S., L.R.C.P.

Apothecary—N. GREALY, L.R.C.S., L.R.C.P. EDIN.

This Hospital affords an extensive field for the study of all classes of disease, acute and chronic. A special ward is set apart for the diseases of children, in which Students will have an opportunity of studying this important class of cases.

Opportunities for Extern Practice and Vaccination are afforded at GALWAY DISPENSARY, No. 1.

Medical Officer—

MARTIN F. LYDEN, L.R.C.S., L.R.C.P., EDIN.

Students whose names are on the Clinical Roll of THE GALWAY HOSPITAL may attend any of the above-named Institutions without further charge.*

I.—NATURAL PHILOSOPHY.

(For Courses see Faculty of Arts, p. 179.)

II.—CHEMISTRY.

(1) LECTURE COURSE.

First Year's Course for Pass and Honours. Inorganic and Organic Chemistry.—The class meets at 12 o'clock on Mondays, Wednesdays, and Fridays throughout the Medical Session.

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* For further information as to the arrangements for clinical teaching (which are liable to alteration) application should be made to Professor Pye, Hon. Sec. of Medical Staff of Galway Hospital.

The Lectures embrace a consideration of the leading facts of Inorganic and Organic Chemistry, and include both the Pass and Honour subjects required for the First Examination in Medicine of the Royal University, or for other corresponding Examinations.

About forty Lectures are devoted to a detailed study of the non-metallic elements, their reactions, and the constitution of the compounds they form. The general facts established are then reviewed, including the weight and volume relation in chemical reactions, the molecular hypothesis, the atomic hypothesis, the relative weight of molecules and atoms, and the periodic law. The leading metals and their more important compounds are briefly considered, and the remaining Lectures are devoted to Elementary Organic Chemistry, embracing the general methods of study of organic compounds, their identification, qualitative and quantitative analysis, the constitution of molecules, isomerism, and including the reactions of the chief members of the fatty and aromatic groups.

(2) Laboratory Courses, Practical Chemistry.

Second Year's Course for Pass.—This course consists of about forty Lectures of two hours each, commencing early in the first term, and ending at the close of the second term. The class works from 3 to 5 o'clock on Mondays, Wednesdays, and Fridays. The experiments are adapted to the requirements of the Pass Second Examination in Medicine of the Royal University, and of other corresponding Examinations. A *Second Year's Course for Honours*, adapted to the Honour Second Examination in Medicine of the Royal University, will be arranged for Students who desire it.

(3) Text-Books.

For Lecture Course.—Roscoe, Elementary Chemistry; or Richter, Inorganic Chemistry (trans. Smith), and Turpin, Organic Chemistry.

For Laboratory Courses.—Clowes and Coleman, Elementary Qualitative Analysis, or Clowes, Practical Chemistry.

III.—NATURAL HISTORY.

(For Courses see Faculty of Arts, p. 187.)

IV.—MODERN LANGUAGES.

(For Courses see Faculty of Arts, p. 191.)

V.—ANATOMY AND PHYSIOLOGY.

A. The Course laid down for Students in ANATOMY comprises :—

(*a*) *Descriptive Anatomy.*—A Course of Systematic Lectures on the Human Body. In the First Term, Osteology and Arthrology are taken up, and special attention is paid to the cultivation of a power of accurate observation and precise description.

Later on, more attention is gradually directed to the Topographic Anatomy of regions that are of medical or surgical importance.

The dissections for these Lectures are made by Prosectors appointed from amongst the best Students.

Casts, plates, and permanent dissections are used, sparingly at first, to a larger extent towards the end of the Course.

(*b*) *Dissections,* made by each Student independently, under the supervision of the Professor and Demonstrator. The Students are advised to learn Topographic Anatomy by means of a series of mental pictures; and, in order to secure vivid pictures, it is pointed out that careful and methodical dissections must be made.

The results of dissections are compared with the special information obtained by frozen sections, as well as with surface Anatomy of the living body, and the knowledge of its deeper organs obtained by auscultation and percussion.

B. In PHYSIOLOGY three Classes are formed:—Junior, Senior, and Practical.

To the *Junior Class* Lectures are delivered on the Histology and functions of the tissues, and of the organs of vegetable life, to which is added a special account of the structure and functions of muscle and nerve.

In the *Senior Class* the highest animal functions are taken first, beginning with a study of the nervous system and organs of sense.

The great facts of Physiology are studied by an examination of the original evidence, and, when practicable, by a repetition of the experiments that establish them.

For this purpose special portions of Physiology are taken each year.

The *Practical Class* meets in the second and third terms, on three days weekly. Each meeting occupies two hours. A separate table in the Laboratory is provided for each Student. In succession the Students undertake:—

I. PRACTICAL HISTOLOGY.—A Microscope and accessories are at the disposal of each Student.
About 60 preparations of the tissues and organs are made, which become the property of the preparer.

II. PRACTICAL EXPERIMENTAL PHYSIOLOGY.—The phenomena of muscle and nerve, of circulation and respiration, and of the sense organs, are studied experimentally.

III. PRACTICAL CHEMICAL PHYSIOLOGY.—Analysis of the various animal substances and fluids referred to in the General Course of Lectures are made by each Student, special attention being paid to work that is important from a clinical point of view.

A dark room for photographic work and for the use of the Laryngoscope and Ophthalmoscope is in readiness.

The *Laboratory* contains an excellent collection of instruments used in physiological work.

MUSEUM.

To the Physiological Department is attached the Museum of Human and Comparative Anatomy. The preparations in this Museum are arranged in physiological series according to functions of organs.

They form a valuable addition to the teaching facilities in Physiology; enabling the Professor to illustrate his Lecture by extended references to Comparative Physiology.

This Museum was founded by the late Dr. Croker King, some time Professor of Anatomy and Physiology in this College, afterwards Medical Commissioner of the Local Government Board. It was remodelled and enlarged by his successor in the Chair, Professor Cleland, F.R.S., now Professor of Anatomy in the University of Glasgow. To Professor Cleland the College is indebted for many valuable specimens which form a permanent record of his work here.

VI.—PRACTICE OF MEDICINE.

Six Months' Course.

On Tuesdays, Thursdays, and Saturdays, at 2 o'clock. The Course is divided into two parts. The first comprises a general introduction to the study of Medicine, and a series of Lectures on the classification of diseases; the general principles of ætiology, semeiology, diagnosis, and therapeusis; the method of clinical examinations; body temperature, and pulse in disease, and kindred subjects.

In the second and longer portion, the specific infections and constitutional diseases, and the diseases of the various systems and organs of the body, are taken up in regular order. The morbid anatomy and pathology, the symptoms, course, duration, and treatment are reviewed; and in addition, the causation, complications, and sequelæ, prognosis, vital statistics, differential diagnosis, prophylaxis, &c., receive attention.

The Lectures are illustrated by pathological preparations—both macroscopic and microscopic—apparatus, instruments, drawings, &c.; and the Professor, being one of the Physicians to the Galway Hospital, has an excellent opportunity of demonstrating to the Class the facts and methods treated of in the Lectures.

Examinations are frequently held during the Session, and by this means attention is paid to the progress of each member of the Class.

VII.—SURGERY.

The Surgical Lectures are delivered by the Professor of Surgery, at the College, on three days each week during the Session.

During the *First Term*, inflammation, general Surgical diseases, theory of treatment of wounds, &c., furnish the subjects of the Lectures. The class-books recommended are "Walsham's Surgery," "Erichsen's Surgery," and "Green's Pathology."

Early in the *Second Term*, fractures and dislocations form the subject of the Lectures, where much assistance is given by dry specimens of bones, both normal and abnormal.

Special injuries and surgical diseases form the subjects of Lecture during the remainder of the Session.

Treves' System of Surgery and Cassell's Clinical Manuals in connection with the subjects of the Lectures are recommended.

Surgical instruments are shown in connection with the Lectures, so as to give the Students the opportunity of learning the special use of each instrument.

At the termination of the Session an Examination is held, the questions being taken from different portions of the Course, and prizes given for high answering.

VIII.—MATERIA MEDICA.

Lectures are delivered at 2 P.M. on Tuesdays, Thursdays, and Saturdays. The Course comprises a study of the Drugs, organic and inorganic, of the British Pharmacopœia, and a review of the more important Drugs that are not officinal.

The earlier Lectures include a study of:—

1. The general method of classifying drugs.
2. The sources and natural conditions of medicines.
3. The selection and collection of medicines.
4. The active principles of medicines derived from the vegetable kingdom.
5. The modes of administration of drugs.
6. The several circumstances that influence the action of drugs in the system.
7. Prescription reading and prescription writing.

Several Lectures are next devoted to a critical study of the Official Pharmacopœia.

The succeeding Lectures include the study of individual drugs, organic and inorganic, according to a pre-arranged therapeutical grouping, and after the following method:—Source (geographical, botanical); characters and tests; impurities and incompatibilities; preparations and doses; therapeutic value.

At the commencement of each Lecture the Class are examined on the previous day's work.

THE MUSEUM is enlarged and replenished from year to year, so that the drugs exhibited may be as fresh and characteristic as possible, and contains a complete set of the official drugs, and an extensive collection of drugs not official. These are exhibited to Students during Lecture, and ample opportunity is given them to investigate the physical properties and characteristic appearance of each specimen.

Text-Books.

Whitla—*Pharmacy, Materia Medica and Therapeutics* (6th edition); White—*Materia Medica*, &c.; Mitchell Bruce—*Materia Medica*, &c.: F. T. Roberts—*The Officinal Materia Medica;* C. L. Semple—*Elements of Materia Medica.*

Works of Reference.

Ringer—*Therapeutics;* Farquharson—*Guide to Therapeutics;* Binz—*Elements of Therapeutics;* Lauder Brunton—*Pharmacology, Therapeutics, and Materia Medica, Tables of Materia Medica.*

PRACTICAL PHARMACY.

1. Is taught in the new Laboratory, which is fitted up with all the appliances, and supplied with all the drugs necessary for a comprehensive study of the subject.

2. Lectures commence early in the second Term, and continue for three months. Not less than two Lectures are delivered in each week. Tuesdays and Saturdays at 3 o'clock.

3. Each Student is obliged to carry out personally the different manipulations and experiments suggested by the Professor in the course of study followed.

4. The earlier Lectures are devoted to a study of the more important pharmaceutical processes—

Sub-division of Drugs.
Weighing.
Measuring.
Sifting.
Elutriation, Suspension, Emulsions.
Solution (Pharmacopœial Solvents).
Crystallization, Evaporation, Precipitation, and Sublimation.

During the study of the above the Students are obliged to prepare some of the more important pharmaceutical preparations involving the processes enumerated.

5. Attention is next directed to the study of incompatibility, after which several Lectures are devoted to the preparation of plants for pharmaceutical purposes, separation of active principles, &c.

6. The concluding Lectures are devoted to the practical study of prescribing, compounding, and dispensing.

The Professor, at the commencement of each Lecture, supplies the notes necessary for the day's work.

IX.—MIDWIFERY.

1. *Obstetrics.*

The Course occupies six months, and covers:—Anatomy of pelvic organs, mechanism of delivery, conception, pregnancy (including diseases of pregnancy), abortion, normal and abnormal labour, obstetric operations, puerperal diseases.

Gynæcology.

Instruments; methods of examination; operations; and diseases peculiar to women.

Lectures are delivered on Mondays, Wednesdays, and Fridays, from 2 to 3 P.M., during the Session.

The Museum.

The important Museum, collected by the late Dr. Montgomery, and purchased for this Department, contains many very valuable Physiological and Pathological specimens, models, and diagrams. A large collection of Obstetric and Gynæcological instruments has been added.

The Library of the Department is very complete, and to it are added each year, as they are published, the best books and journals on Obstetrics, Gynæcology, and Pædiatrics.

Text-Books.

Playfair's or Leishman's Midwifery.
Barnes—Obstetric Operations.
MacNaughton Jones—Diseases of Women.
Hart and Barbour—Diseases of Women.
Goodall—Lessons on Gynæcology.
Lawson Tait—Diseases of Women and Abdominal Surgery.

X.—MEDICAL JURISPRUDENCE.

A. *Forensic Medicine.*—From 12 to 1 on Mondays and Wednesdays.

Poisoning, Suspicion and Symptoms of; Process of Law; Evidence; Signs of Death; Post-mortem Examinations; Crimes against the Person; Starvation; Suicide; Heat and Cold; Insanity, &c.

B. *Toxicology.*—At hours to be arranged with the Professor of Chemistry at the commencement of the Session. The Lectures are based on experiments made partly by the Lecturer and partly by the Students, and embrace the methods of detecting the leading poisons.

The *Library* in this department includes not only the standard works on Forensic Medicine, but those on Criminal Anthropology, on Public Health, Inebriety and Insanity. The *Law* Library is also available for reference.

Text-Books.

Tidy's Legal Medicine; Luff's Text-Book of Forensic Medicine and Toxicology; Taylor's Medical Jurisprudence (Stevenson); Guy and Ferrier's Medical Jurisprudence; Kinkead's Medical Practitioner's Guide.

XI.—FEVER.

This Course of Lectures, including Clinical Instruction, will be delivered at days and hours to be arranged.

XII.—PATHOLOGY.

The Course will be for three months—two Lectures a week in Theoretical Pathology, and three meetings of the Class weekly in Practical Pathology.

The Laboratory is supplied with Microscopes, Apparatus, and Re-agents.

There is an extensive and valuable collection of Pathological preparations and specimens at the disposal of the Lecturer for use in the Class.

EXAMINATIONS.

Matriculation

See the Regulations, pages 140 and 155.

Scholarships.*

A. First Year.—For one Scholarship the Course is the same as that prescribed for the Literary Scholarships of the First Year; for the other Scholarship the Course is the same as that prescribed for Science Scholarships of the First Year, in the Faculty of Arts.†

A Scholar or Exhibitioner of the First Year shall attend the following Courses‡:—

Anatomy,	French or German.
Chemistry,	Natural Philosophy, treated
Natural History.	Experimentally.

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* For Conditions of Tenure and for Exhibitions, see pages 150, 151. By a recent regulation of the Council, all Scholarships and Exhibitions of the Second, Third, and Fourth Years may now be competed for by Students who have attained the requisite standing in any Medical School recognized by the College Council, and have passed the Matriculation Examination in the College.

† See pages 156 and 158.

‡ Scholars of the First Year shall be exempt from attendance on Lectures in French, German, Physics, who shall produce Certificates of having passed a University Examination, or of having attended Courses of Lectures on these subjects in any Institution recognised by the Council of the College.

B. Second Year.—A Student, in order to compete for a Scholarship of the Second Year, must have Matriculated; and must be of one year's standing, and not more.

Subjects of Examination.

1. *Anatomy* (100).—Osteology and Arthrology; also the Myology of the Limbs.

Candidates may be examined on specimens placed before them.

2. *Chemistry* (100).—The First Year's Lecture Course in Chemistry, for which see page 198.

3. *Natural History* (100).—Vertebrata and Invertebrata.

Structural and Physiological Botany; Principles of Classification; Characters of the more common Natural Orders.

4. *Natural Philosophy* (50).—Elements of Mechanics, Hydrostatics, Pneumatics, Acoustics, Optics, Heat, Electricity, and Magnetism, treated principally from an Experimental point of view.

And either of the following—

5. *French* (50).* *German* (50).*

For the Courses, see the Second Year Scholarship in Arts, page 160.

No mark under one-fifth of the maximum shall be taken into account in any subject.

Scholars or Exhibitioners of the Second Year shall attend the following Courses:—

Physiology.	Practical Anatomy.
Practical Chemistry (if not taken in the First Year).	Materia Medica.

* The Candidates may select either French or German. When entering his name with the Bursar the Candidate shall declare the subjects which he selects for Examination.

C. THIRD YEAR.—In order to compete for a Scholarship of the Third Year, a Student must—

(*a*) Have Matriculated.

(*b*) Be of two years' standing and not more.

(*c*) Have attended in this, or some Medical School recognised by the College Council, Courses of Lectures in at least four of the following subjects:—

Anatomy and Physiology.	Practical Chemistry.
Chemistry.	Practical Anatomy.
Botany.	Materia Medica.
Zoology.	

Subjects of Examination.

1. *Physiology* (100).—Physiology of Muscle and Nerve, Organs and Functions of Digestion, Absorption, Circulation, Respiration, and Urination, together with the Blood and its Elaboration. The Examination will include practical work.

2. *Practical Anatomy* (100).—Joints, Muscles, Vessels, Viscera, and Brain.

During the Examination, Candidates may be called on to make dissections, or to describe structures placed before them.

3. *Materia Medica and Therapeutics* (100).—The Medicines and Compounds in the British Pharmacopœia. Candidates will be required to identify specimens and write prescriptions.

4. *Laboratory Experiments* (*Practical Chemistry*) (100).—The Second Year's Laboratory Course for Pass described page 199.

No mark under 30 shall be taken into account in any subject.

A Student to whom a Third Year's Scholarship has been awarded shall attend, during the year of his election, four at least of the following Courses:—

Anatomy and Physiology.	Midwifery and Diseases of Women.
Practical Anatomy.	Theory and Practice of Medicine.
Theory and Practice of Surgery.	Medical Jurisprudence.

D. FOURTH YEAR.—In order to compete for a Scholarship of the Fourth Year, a Student must—

(*a*) Have Matriculated.

(*b*) Be of three years' standing and not more.

(*c*) Have attended in this or some School recognised by the College Council, Lectures in Anatomy and Physiology, and three at least of the following Courses:—

Materia Medica and Therapeutics.	Theory and Practice of Surgery.
Medical Jurisprudence.	Obstetrics and Gynæcology.
Theory and Practice of Medicine.	

Subjects of Examination.

1. ***Anatomy and Physiology*** (100).—Functions of Cerebro-spinal Axis, Cranial Nerves, Sense Organs and Larynx. Analysis of Bile, Urine, Blood (including quantitative determination of Grape-sugar and Urea, and the use of the Spectroscope).

And *any three* of the following in which he has attended Lectures:—

2. ***Materia Medica and Therapeutics*** (100).—The Medicines and Compounds of the British Pharmacopœia, together with the Physiological action and Therapeutical effects of the following substances:—Iron, Mercury, Iodine, Arsenic, Aconite, Opium, Digitalis, Alcohol, Nux Vomica, Cinchona. [Candidates will be required to write prescriptions, and identify specimens.]

3. ***Medical Jurisprudence*** (100).—Starvation; Wounds; Insanity; the Principal Poisons.

4. ***Theory and Practice of Medicine*** (100).—Diseases of the Digestive, Urinary, and Nervous Systems.

5. ***Theory and Practice of Surgery*** (100).—(1) Fractures and Dislocations; (2) Inflammation (Surgical Pathology); (3) Injuries of the Head.

6. ***Obstetrics and Gynæcology*** (100).—Normal and Abnormal Labour; Obstetric operations; Menstruation.

No mark under 30 shall be taken into account in any subject. When entering his name with the Bursar the Candidate shall declare the subjects which he selects for Examination.

Scholars of the Fourth Year shall attend during the year of their election two at least of the following Courses, viz. Medicine, Surgery, Obstetrics, Medical Jurisprudence.

E. Senior Scholarship in Anatomy and Physiology.—The Scholar will be required to act as Demonstrator in these subjects, and the Examination will be directed to ascertaining his fitness for that position. The Examination will be on the structure and functions of the Human Body, and will include the preparation and recognition of specimens and the description of Museum preparations. Candidates are recommended to practise diagram work. An Examination will be held in the Physiological Laboratory at which Candidates will be required to show a practical acquaintance with the working of Physiological apparatus.

School of Civil Engineering.

Students in the School of Engineering can obtain in the Royal University of Ireland, the Degree of Bachelor of Engineering, Master in Engineering, or a Diploma in Engineering; for the regulations regarding these, see Appendix.

Prescribed Course of Study.

First Session.

Mathematics (First Course); *French or German; Chemistry; *Experimental Physics; Practical Physics; Geometrical Drawing and Descriptive Architecture; Office Work.

Second Session.

Mathematics (Second Course); Mathematical Physics; Practical Chemistry; Civil Engineering and Constructive Architecture; Office Work and Field Work.

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* Students shall be exempt from attendance on Lectures in French, German, Experimental Physics, who shall produce Certificates of having passed an University Examination, or of having attended Courses of Lectures in any Institution recognised by the College Council, in these subjects.

Third Session.

Mathematical Physics; Civil and Mechanical Engineering; Office Work and Field Work; Geology and Physical Geography.

Attendance on these Courses in all cases includes passing such Examinations as may be appointed by the College Council, as well as the Catechetical parts of the Courses of Lectures.

Some modification of the order in which the subjects shall be studied will be admitted on the recommendation of the Council.

DAYS AND HOURS OF LECTURES.

Subjects.	Terms.	Mon.	Tues.	Wed.	Thrs.	Fri.	Sat.
1st YEAR.							
French,	1, 2, 3,	—	10	—	10	—	10
Experimental Physics,	1, 2, 3,	—	12	—	12	—	12
Practical Physics,	2, 3	—	3	—	3	—	—
Chemistry (Pass and Honour),	1, 2, 3,	12	—	12	—	12	—
Mathematics,	1, 2, 3,	1	—	1	—	1	—
Mathematics (Honour),	1, 2, 3,	—	1	—	1	—	—
Geometrical Drawing and Descriptive Architecture,	1, 2, 3,	11	—	11	—	11	—
Office Work,	1, 2, 3,	2	—	2	—	2	—
2nd YEAR.							
Civil Engineering,	1, 2, 3,	1	—	1	—	1	—
Office Work and Field Work,	1, 2, 3,	2	—	2	—	2	—
Chemistry, Laboratory (Pass or Honour),	3 Mths.	3	—	3	—	3	—
Mathematical Physics (Pass),	1, 2, 3,	10	—	—	—	10	—
Mathematical ,, (Honour),	—	—	9	—	—	—	9
Mathematics (Honour),	1, 2, 3,	11	—	11	—	11	—
Mathematics (Pass),	1, 2, 3,	—	1	—	1	—	—
3rd YEAR.							
Civil and Mechanical Engineering,	1, 2, 3,	12	—	12	—	12	—
Office Work and Field Work,	1, 2, 3,	2	—	2	—	2	—
Mathematical Physics,	1, 2, 3,	—	—	9	—	—	9
Geology and Physical Geography,	1, 2,	10	—	10	—	10	—

I.—MATHEMATICS.

The Courses in Mathematics in the School of Civil Engineering coincide in a great measure with those in the Faculty of Arts (see p. 178), but are slightly more extensive.

In particular, the Pass Course for the First Year includes the elements of Solid Geometry and the use of Logarithmic and Trigonometrical Tables.

The Pass Course for the Second Year includes the elements of the Differential and Integral Calculus.

On the other hand, the Theory of Equations, and the methods of Polar and Trilinear Co-ordinates do not form part of the Course in this School.

When no other arrangements are made, the Lectures on the above additional subjects to Honour Students in the Faculty of Arts are open to Pass Engineering Students.

The Library contains books of Mathematical Tables which will be useful to those who wish for practice in computation.

II.—NATURAL PHILOSOPHY.

(For Courses see Faculty of Arts, p. 179.)

III.—CHEMISTRY.

(1) Lecture Course.

First Year's Course for Pass and Honours. Inorganic Chemistry.—The class attends the Lectures given to Students of the Faculty of Arts at 12 o'clock on Mondays, Wednesdays, and Fridays throughout the Session. Attendance will, however, not be required on Wednesdays between the Christmas recess and the close of the Medical Lectures. The Lectures embrace a consideration of the leading facts of Inorganic Chemistry, and include both the Pass and Honour subjects required for the Second Professional Examination in Engineering of the Royal University, or for other corresponding Examinations. For syllabus see Faculty of Arts.

(2) Laboratory Courses, Practical Chemistry.

Second Year's Pass Course.—This course consists of about forty Lectures of two hours each, commencing early in the first term, and ending at the close of the second term. The work done is adapted to the requirements in Practical Chemistry of the Pass Second Professional Examination in in Engineering of the Royal University. A *Second Year's Course for Honours*, adapted to the Honour Second Professional Examination of the Royal University, will be organized for Students who desire it.

(3) Text-Books.

For Lecture Course.—Thorpe, Inorganic Chemistry, 2 vols., or Roscoe, Elementary Chemistry.

For Laboratory Courses.—Clowes and Coleman, Elementary Qualitative Analysis, or Clowes, Practical Chemistry.

IV.—MINERALOGY AND GEOLOGY.

(For Courses see Faculty of Arts, p. 189.)

V.—MODERN LANGUAGES.

(For Courses see Faculty of Arts, p. 191.)

VI.—CIVIL ENGINEERING.

First Year—Subjects of Lectures.

Scales, Curves, Descriptive Geometry, Orthographic and Isometric Projections, Shadows, Perspective and Descriptive Architecture.

Text-Books and Works of Reference.

Miller's Descriptive Geometry. Heather's Descriptive Geometry. Winter's Geometrical Drawing. Buck on Oblique Bridges. Clarke on Perspective. Carpenter's and Joiner's Assistant. Engineer and Machinists' Drawing Book. Rickman's Gothic Architecture. Ferguson's History of Architecture. Chapters on Greece, Rome, and England. Stuart and Revett's Antiquities of Athens. Oxford Glossary. Classic and Early Christian Architecture—Smith and Slater. Gothic and Renaissance Architecture—Smith.

Second Year—Subjects of Lectures.

Instruments — Surveying, Levelling, Railway Curves, Measurement of Earthwork, Constructive Architecture, Measurement of the Flow of Water, Roads, Railways, Tramways, and Streets (excluding electrical theory of Electric Tramways), Tunnelling.

Text-Books and Works of Reference.

Rankine's Civil Engineering. Gillespie's Surveying. Gribble's Preliminary Surveys and Estimates. Rivington's Building Construction, Parts I., II. Bidder's Tables. Sir John M'Neill's Tables. Turner and Brightmore—Principles of Water Supply Engineering. (Chapter on Hydraulics). Carpenter's and Joiner's Assistant. Maguire's Domestic and Sanitary Engineering and Plumbing. Clarke on Tramways. Clarke on Roads. Barry's Railway Appliances. Simms on Tunnelling.

Third Year—Subjects of Lectures.

Materials used in Construction, Stresses in Structures, Principles of Construction of Bridges, Roofs, Canals, Sewerage Works, Harbours, Arterial and Thorough Drainage, Waterworks, Locomotive Engine, Water Wheels.

Text-Books and Works of Reference.

Fairbairn's History of the Manufacture of Iron. Faija, Cement-testing for Cement users. Rankine's Civil Engineering. Rankine on the Steam Engine Rivington's Building Construction, Parts III. and IV. Stoney on Stresses. Cotteril's Applied Mechanics. Humber on Bridges. Buck on the Oblique Arch. Latham on Sanitary Engineering. Hill on Thirlmere Works. Deacon on Vyrnwy Works, Proc. I. C. E., vol. cxxvi. Drainage of Lands, Towns, and Buildings, by Dempsey, with recent Practice by D. R. Clarke. Sewage Disposal Works by Santo Crimp. Purification of Sewage and Water, by W. J. Dibdin. Turner and Brightmore—Principles of Water Supply Engineering. Vernon Harcourt on Harbours. Vernon Harcourt on Canals and Rivers. Steam Engine by Holmes (omitting Thermodynamical Theory). Bowen Cook, British Locomotives. Dawson, Electrical Railways and Tramways. Fairbairn on Mills and Millwork. Bodner's Hydraulic Motors. Tredgold on Carpentry. Carpenter's and Joiner's Assistant. Shelly's Workshop Appliances. Records of Modern Engineering.

The Students of each year are engaged during each term in preparing working drawings of Structures in Architecture and Engineering.

Students of the Second and Third Years make Surveys and Sections in the field.

EXAMINATIONS.

MATRICULATION.

(See page 156.)

*SENIOR SCHOLARSHIP.

The Course for the Examination consists of the Civil and Mechanical Engineering prescribed for Engineering Students of the Third Year (see p. 216).

JUNIOR SCHOLARSHIPS.

Two are tenable by Students of the			First Year.
Two	,,	,,	Second Year.
One	,,	,,	Third Year.

First Year's Scholarship.

To compete for a Scholarship of the First Year a Student must have Matriculated.

The Course is that prescribed for Science Scholarship of the First Year in the Faculty of Arts (see p. 158).

Second Year's Scholarship.

To compete for a Scholarship of the Second Year a Student must have Matriculated, and be of one year's standing, and not more.

The Course consists of the subjects of study prescribed for Students of the First Year (see p. 212).

The subjects of Examination in French or German, and Experimental Physics, are the same as those prescribed for Medical Scholarships of the Second Year (see p. 209).

Third Year's Scholarship.

To compete for a Scholarship of the Third Year a Student must have Matriculated, and be of two years' standing, and not more.

The Course consists of the subjects of study prescribed for Students of the Second Year (see p. 212.)

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* For Regulations *see* pp. 147, 216.

CHANGES IN THE MATRICULATION AND SCHOLARSHIP COURSES FOR THE SESSION 1899–1900.

For the Works hitherto prescribed in the Examination Courses substitute the following:—

1. *Matriculation.*

Latin, . . Cicero—*In Q. Caecilium Divinatio*, and *In C. Verrem, Actio Prima.*
Virgil—*Georgics IV.*
The rest as at page 155.

Greek, . . Plato—*Crito.*
Euripides—(Scenes from) *Alcestis* (Longmans).
The rest as at page 155.

French, . . Souvestre—*Au coin du feu.*
Coppée—*Le Trésor.*
The rest as at page 155.

German, . . Archenholz — *Geschichte des siebenjährigen Krieges*, Books iii. and iv.
Goethe—*Hermann und Dorothea*, Cantos i. and ii.
The rest as at page 155.

Italian, . . Carcano—*Memorie d'un Fanciullo*: *Il Capellano della Rovella.*
Tasso—*Gerusalemme Liberata*, Canto vi.
The rest as at page 155.

English, . . Thomson—*The Seasons*, "*Winter.*"
Lamb, Tales from Shakespeare, Selections, viz.—*King Lear; Timon of Athens; Macbeth; The Merchant of Venice; The Comedy of Errors; Hamlet, Prince of Denmark; The Tempest; As You Like it; A Midsummer's Night Dream; The Taming of the Shrew.*
Omit Outlines of Modern Geography.
The rest as at page 156.

2. *Junior Scholarships of the First Year.*

i. ***Latin,*** . . Livy—*Book* v.
Horace—*Odes* iii. (omitting 6, 15, 22) and iv.; *Art of Poetry; Epistles*, ii., 1 and 2.
Sallust—*Jugurtha.*
The rest as at page 156.

ii. ***Greek,*** . . Demosthenes—*Philippics*, i., ii., iii.
Homer—*Iliad*, xxii., and *Odyssey*, ix.
Isocrates—*Panegyricus.*
The rest as at page 157.

French, . . Corneille—*Polyeucte.*
Racine—*Les Plaideurs.*
Erckmann-Chatrian—*L'Invasion.*
The rest as at page 157.

German, . . Schiller—*Der dreissigjährige Krieg*, Book iv.
Goethe—*Tasso.*
The rest as at page 157.

Italian, . . Machiavelli—*Istorie Fiorentine*, iii. and iv. (Barbèra).
Manzoni—*I Promessi Sposi* (Clapin).
Monti—*Caio Gracco.*
The rest as at page 157.

Celtic, . . *Trí Bior-ghaoithe an Bhais* (Atkinson, pp. 1–79).
Irish Phrase Book (Hogan.)
Cath Rois na Riogh (Hogan).
Keating's *History of Ireland* (Joyce) Book i., Part I.
The rest as at page 157.

iii. ***English.*** . . Shakspere—*Richard II., Julius Cæsar.*
English Essays in the Warwick Library, Nos. 5, 7, 12, 22, 23, 24, 27, 28, 29, 31, 32, 35, 37, 40, 41, 42, 43, 44, 47, 49 (Blackie).
Thomson—*Winter.*
Macaulay—Essays on *Clive* and *Warren Hastings*
The rest as at page 158.

3. *Junior Scholarships of the Second Year.*

i. ***Latin***, . . Horace—*Epistles*, i. and ii., 1 and 2.
Livy—Book xxxiii.
Virgil—*Eclogues* and *Georgics*, Book i.
Horace—*Odes*, Book i.
Cicero—*Pro Sulla* (instead of *Pro Murena*).
The rest as at page 160.

ii.
- ***Greek***, . . Homer—*Od.* v., vi., vii.
Plato—*Meno*.
Euripides—*Bacchæ*.
Herodotus—Book ix.
Demosthenes—*Olynthiacs*.
Greek History, 560–429 B.C.
The rest as at page 160.
- ***French***, . . Labiche et Jolly—*La Grammaire*.
Bonnechose—*Lazare Hoche*.
Corneille—*Horace*.
The rest as at page 160.
- ***German***, . . Goethe, Lessing und Gellert, } as at page 160.
Heine—*Die Harzreise*.
Goethe—*Hermann und Dorothea*.
The rest as at page 160.
- ***Italian***, . . De Amicis—*Gli Amici di Collegio*.
Tasso—*Gerusalemme Liberata*, cantos 5 to 8 incl.
Manzoni—*I Promessi Sposi*.
The rest as at page 160.

iii. ***English***, . . Johnson—*Lives of Addison and Swift* (instead of *Life of Pope*). *Rasselas*.
Shakspere, Pope, Gray, Addison, } as at page 161.
The rest as at page 161.

4. *Junior Scholarships of the Third Year.*

iii. ***Latin***, . . Juvenal—*Satires*, 1, 3, 5, 12, 14, (instead of 3, 4, 10, 11, 15).
Cicero—*In His Letters* (Tyrrell), xli.–lxx. (instead of i.–xl.).
Lucretius—Book v. (instead of Book i.).
Cicero—*Tusc. Disp.* i. (instead of *De Off.* iii.).
Tacitus—*Germania* (instead of *Agricola*).
Roman History: Mommsen—*Provinces of the Roman Empire*, vol. i., pp. 1–194. (Eng. Trans.)
The rest as at page 163.

ii. *Greek*, . . Plato—*Phaedo*.
Homer—*Iliad*, Books xvi., xxi., xxii.
Sophocles—*Œdipus Rex*, and *Antigone*.
Thucydides—Book iv. The rest as at page 163.

French, . . For *Les Femmes Savantes*, substitute *Le Misanthrope*.
For *Le Directoire*, substitute Corneille—*Le Cid*.
Boileau, Racine, Labbé, } as at page 163.
The rest as at page 163.

German, . . For *Hermann und Dorothea*, *Zopf und Schwert*, *Historische Skizzen*, substitute—
Raumur—*Der erste Kreuzzug*.
Schiller—*Wallensteins Lager*.
The rest as at page 163.

Italian, . . Alfieri, Goldoni, Dante, Machiavelli, } as at page 163.

iii. *English*, . . Bacon—*Essays*, i.–xl.
Shakspere, Spenser, Milton, Sidney, } as at page 163.
The rest as at page 163.

5. *Senior Scholarships.*

1. Ancient Classics.

Greek, . . Pindar, Aristotle, Aeschylus, } as at page 166.
Aristophanes—*Frogs*, and *Knights*.
Theocritus—*Id.*, 1, 2, 3, 6, 7, 9, 10.
The rest as at page 166.

Latin, . . Plautus—*Trinummus* and *Rudens* (instead of *Menaechmi*).
History: Mommsen—*Provinces of the Roman Empire*, vol. i.
Lucretius, Book v. (instead of ii.).
Cicero—*Ad Att.* x.–xii. (instead of xi.–xiii.).
Tacitus—*Annals*, xiii., xiv. (instead of i.–iv.).
Persius, Virgil, Horace, } as at page 166.
The rest as at page 166.

2. Modern Languages and Modern History.

French, . . Corneille—*Le Cid*, *Cinna*.
Molière—*Les Précieuses Ridicules*, *Les Femmes Savantes*.
Taine,
Fénelon,
Buffon,
Darmesteter et Hatzfeld,
} as at page 167.
The rest as at page 167.

German, . . Goethe—*Faust*, Part I.
Schiller—*Die Jungfrau von Orleans*.
Freytag—*Soll und Haben*, Book i.
Goethe and Schiller—*Briefwechsel*, years 1794 and 1795.
The rest as at page 167.

Italian, . . As at page 167.

The Courses in *English* and *Modern History* are the same as at pages 166, 167.

APPENDIX.

For the information of Students, abstracts are here given of the regulations of the Royal University of Ireland; of the University of London, as well as of the Licensing Corporations in Medicine, and of the Honourable Society of King's Inns. The conditions of admission to the Competitive Examinations for certain Home and Foreign appointments are added.

At the end of each abstract, reference is made to the source from which full information may be obtained. Students are reminded that these regulations are subject to frequent change. Care should be taken to consult the latest official rules. These may be referred to in the College Library.

I. Royal University of Ireland.
II. University of London.
III. Royal Colleges of Physicians and Surgeons in Ireland, England, and Scotland.
IV. Regulations prescribed by General Medical Council.
V. Regulations for admission to the Bar.
VI. Inspectorships of National Schools.
VII. County Surveyorships.
VIII. Army, Navy, and Indian Medical Services.
IX. Home Civil Service, Class 1.
X. Civil Service of India.

I.—ROYAL UNIVERSITY OF IRELAND.

General Regulations.

The following Degrees and Diplomas are conferred by the University:—

Arts—
Bachelor of Arts, . B.A.
Master of Arts, . M.A.
Doctor of Literature, D.Lit.

Mental and Moral Philosophy—
Doctor of Philosophy, D.Ph.

Science—
Bachelor of Science, . B.Sc.
Doctor of Science, . D.Sc.

Engineering—
A Special Diploma, Dip. in Eng.
Bachelor of Engineering, B.E.
Master of Engineering, M.E.

Music—
Bachelor of Music, . B.Mus.
Doctor of Music, . D.Mus.

Medicine—
Bachelor of Medicine, M.B.
Doctor of Medicine, . M.D.

Surgery—
Bachelor of Surgery, . B.Ch.
Master of Surgery, . M.Ch.

Obstetrics—
Bachelor of Obstetrics, B.A.O.
Master of Obstetrics, M.A.O.

Sanitary Science—
A Special Diploma.

Mental Diseases—
A Special Diploma.

Law—
Bachelor of Laws, . LL.B.
Doctor of Laws, . . LL.D.

All Degrees, Honours, Exhibitions, Prizes, Scholarships, Studentships, and Junior Fellowships in this University shall be open to Students of either sex.

Candidates for any Degree in this University must have passed the Matriculation Examination. Students from other Universities and Colleges are included in this rule.

Matriculation.

(Dublin and Local* Centres.)

Subjects.

I. Latin.
II. Any one of the following Languages:—Greek, French, German, Italian, Spanish, Celtic, Sanskrit, Hebrew, Arabic.
III. English Language.
IV. Elementary Mathematics.
V. Natural Philosophy.

The First University Examination.

One Academical Year after Matriculation. (Dublin and Local* Centres.)

Subjects.

I. Latin.
II. Any one of the following Languages:—Greek, French, German, Italian, Spanish, Celtic, Sanskrit, Hebrew, Arabic.
III. English Language and Literature.
IV. Mathematics.
V. Natural Philosophy.

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* There is a Centre in Queen's College, Galway.

Faculty of Arts.

Second University Examination in Arts.

One Academical Year after First University Examination. (Dublin and Local Centres).

Subjects.

I. Latin.
II. Greek.
III. English Language and Literature.
IV. Any one of the following Languages:—French, German, Italian, Spanish, Celtic, Sanskrit, Hebrew, Arabic.
V. Logic.
VI. Mathematics.
VII. Mathematical Physics.
VIII. Experimental Physics.
IX. Chemistry.
X. Biology (including Physiology, Botany, and Zoology).
XI. Geology (including Mineralogy and Physical Geography).

N.B.—Candidates at this Examination must answer in four of the foregoing subjects, one of which must be Latin or Mathematics; but candidates entering for Honours in any subject may, if they choose, present as a fifth subject the Honour Course in any of the remaining seven of the foregoing subjects.

Candidates entering for Honours in any subject and presenting a Modern Language as one of the four obligatory subjects, will be at liberty to present, as a fifth subject, the Honour Course in any other of the Languages mentioned under head IV.

B.A. Degree Examination.

One Academical Year after Second University Examination; held in Dublin only.

Subjects.

I. Latin.
II. Greek.
III. English, and any one of the following Languages:—French, German, Italian, Spanish, Celtic, Sanskrit, Hebrew, Arabic.
IV. Logic, and any one of the following:—Metaphysics, Ethics, History of Philosophy, Political Economy.
V. Mathematics.
VI. Mathematical Physics.
VII. Experimental Physics.
VIII. Chemistry.
IX. Physiology.
X. Zoology and Botany.
XI. Geology (including Mineralogy and Physical Geography).

Pass.—Candidates who desire a Pass Degree only, must answer in any one of the following groups of subjects, to be selected by them when entering for the Examination :—

A. (1) Latin, (2) Greek, and (3) any one other of the above subjects.
B. (1) Latin, (2) Logic, Metaphysics, with History of Philosophy, and (3) either Ethics or Political Economy.
C. (1) Mathematics, and (2) (3) two others of the above subjects, one of which must be one of those enumerated under heads VI. to XI.

Honours.—Candidates may obtain the B.A. Degree with Honours in the Honour Courses of any one of the following groups of subjects :—

I. Latin and Greek Languages and Literature.
II. English, and any two of the following Languages :—French, German, Italian, Spanish, Celtic, Sanskrit, Hebrew, Arabic.
III. Logic, Metaphysics, Ethics, and History of Philosophy.
IV. Civil and Constitutional History, Political Economy, and General Jurisprudence.
V. Mathematics and Mathematical Physics.
VI. Mathematical Physics and Experimental Physics.

Or in the Honour Courses of any two of the following five subjects, selected at their option, provided that no Candidate presenting Physiology shall be allowed to present Geology as a second subject :—

i. Experimental Physics.
ii. Chemistry.
iii. Physiology.
iv. Botany and Zoology
v. Geology.

Any Candidate selecting Group No. III. will be at liberty to substitute for *Ethics* any one of the three subjects included in Group No. IV.

M.A. Degree Examination.

One Academical Year after B.A.

Candidates at this Examination will be required to answer in any one of the following groups of subjects :—

I. Latin and Greek Languages and Literature.
II. English, and any two of the following Languages :—French, German, Italian, Spanish, Celtic, Sanskrit, Hebrew, Arabic.

III. Logic, Metaphysics, Ethics, and History of Philosophy.
IV. Civil and Constitutional History, Political Economy, and Political Philosophy.
V. Mathematics and Mathematical Physics.
VI. Mathematical Physics and Experimental Physics.

Or in the Courses of any two of the following five subjects selected at their option, provided that no person presenting Physiology shall be allowed to present Geology as a second subject :—

i. Experimental Physics.
ii. Chemistry.
iii. Physiology.
iv. Botany and Zoology.
v. Geology.

Any Candidate selecting Group No. III. shall be at liberty to substitute for *Ethics* any one of the three subjects included in Group No. IV.

D.Lit. Degree.

Final Examination, three Academical years after B.A.

D.Ph. Degree.

Examination, three Academical years from the time of obtaining the B.A. Degree.

B. Sc. Degree.

Examination, one Academical year from the time of graduating in any Faculty in the University.

D.Sc. Degree.

Examination, three Academical years after Graduation in any Faculty in the University.

Faculty of Law.

There are three Examinations in Law :—

1. The First Examination in Law.
2. The Examination for LL.B. Degree.
3. The Examination for LL.D. Degree.

Candidates in Law must be Graduates in Arts of the University.

Faculty of Medicine.

While Candidates for other Degrees are only required to pass prescribed Examinations, Medical Students are, in addition, obliged to pursue fixed Courses of Study at special places of education. Considerable changes, binding on all Students who commence their Medical Studies after January 1st, 1892, have been introduced into the Medical Curriculum in consequence of its extension to five years.

Candidates for Medical Degrees, who began their Medical Studies after January 1st, 1892, must have been registered by Medical Council for 57 months, and must be fully 21 years of age.

Medical Curriculum.

First Year.

The First Year's Course of Medical studies consists of:—

(*a*) Natural Philosophy, taught experimentally—

Either a Six Months' Course with Lectures (illustrated experimentally) on Three days in the week;

Or, a Three Months' Course with Lectures (illustrated experimentally) on at least Five days in the week.

(*b*) Chemistry, a Six Months' Systematic Course.

(*c*) Biology—

Botany, a three Months' Course with Lectures and Demonstrations on at least Three days in the week.

Zoology, a Three Months' Course with Lectures and Demonstrations on at least Three days in the week.

(*d*) Anatomy, a Six Months' Systematic Course (Optional).

(*e*) Practical Anatomy (Dissections), a Six Months' Course (Optional).

The Systematic Course in Anatomy and Dissections should enable the Student to acquire a good knowledge of the bones, joints, and muscles, and such knowledge of the vessels and viscera and of the larger nerves, as he may reasonably be supposed to have acquired at this period of his Medical Studies.

(*f*) Practical Chemistry, a Three Months' Course (Optional).

This attendance must not be simultaneous with attendance at the Systematic Course.

Students who have taken the B.A. Degree in any of the subjects named for the First Year's Course of Medical Studies shall, upon the production of certificates of attendance in recognised institutions at proper courses of instruction in such subject or subjects, be exempted from attending any further lectures or passing examinations in such subject or subjects.

But, to entitle a Candidate to any of the privileges here conceded, he must have obtained, at the B.A. Examination in the subject or subjects in which he now claims exemption, Honours or 50 per cent. of the Pass Marks.

In addition, any Student who may have passed the Second University Examination in Arts, and at such Examination shall have obtained in Biology, either Honours, or 50 per cent. of the Pass Marks, may be exempted from presenting Biology at the First Examination in Medicine; he must, however, lodge the necessary certificates.

Certificates of attendance upon a Course of Lectures on Natural Philosophy, taught experimentally, will be accepted, although such attendance may have taken place prior to the Candidate's first year of Medical Studies, provided such course fulfilled the conditions prescribed for the first year of Medical Studies in this subject.

Second Year.

The studies assigned to the Second Year must not be entered upon until the completion of the course assigned to the First Year, that is, until the completion of such a course of study as would qualify a Candidate for admission to the First Examination in Medicine.

The Second Year's course of Medical Studies consists of:—

(*a*) Anatomy, a Six Months' Systematic Course (if not attended during the First Year).

(*b*) Practical Anatomy [Dissections], a Six Months' Course (if not attended during the First Year).

Students who in the First Year have attended the courses of Anatomy prescribed for the Second Year, may in the Second Year attend the course of Anatomy prescribed for the Third Year.

(*c*) Practical Chemistry, a Three Months' Course (if not attended during First Year).

(*d*) Physiology, a Six Months' Systematic Course.

The Systematic Course in Physiology should enable the Student to acquire a good knowledge of Physiological Chemistry, and of the following:—Development of tissues; the Physiology of muscle, nerve-fibres, and nerve-cells (but not of the brain and spinal cord); also, the Physiology of blood, lymph, and lymphoid organs, digestion, circulation, respiration, animal heat, secretion and excretion (including the functions of the skin and kidneys). The advanced portions of the subject, *e.g.*, Embryology, the Histology and Physiology of the central nervous system and of the organs of special sense, of voice, and of reproduction, are comprised in the Advanced Systematic Course of Physiology prescribed for the Third Year.

(*e*) Materia Medica, Pharmacology and Therapeutics, a Three Months' Course (optional). This subject may be studied in either the Second or Third Year of Medical Studies; but it will be included in the subjects of the Third Examination in Medicine.

(*f*) Practical Physiology and Histology (optional), a Three Months' Laboratory Course of at least two hours three times a week. One third, at least, of the time shall be devoted to Practical Physiology, and this shall be stated explicitly in the certificate or certificates of attendance. This Course may be taken either in the Second or in the Third Year.

(*g*) Hospital Attendance for the Second Year. Attendance during a *Winter* Session of Six Months. (The total Hospital attendance will be as heretofore, *i.e.* Attendance during thirty-three months.)

Third Year.

No certificate of attendance at instruction in any of the branches of study assigned to the Third Year will be accepted where such attendance appears to have taken place prior to the completion of the Second Year of Medical Studies, except as herein provided.

The Third Year's Course of Medical Studies consists of:—

(*a*) Anatomy, a Six Months' Advanced Systematic Course (if not attended during the Second Year).

(*b*) Practical Anatomy [Dissections], a Six Months' Course (if not attended during the Second Year).

The Course of Advanced Systematic Anatomy should be such as to enable Students to perfect their knowledge of the branches of Anatomy prescribed for the Second Examination in Medicine, and also of the whole nervous system and the organs of sense.

(*c*) Physiology, a Six Months' Advanced Systematic Course.

The Course of Physiology must be distinct from the Course in the Second Year of Medical Studies. It shall deal expressly with those parts of the subject which are not prescribed for the Second Year's Course, and shall comprise Embryology, the Histology and Physiology of the central nervous system, and of the organs of special sense, of voice, and of reproduction.

(*d*) Practical Physiology and Histology (if not attended during the Second Year).

(*e*) Any *two* of the following:—

1. Medicine, a Six Months' Course.
2. Surgery, a Six Months' Course.
3. Midwifery, and Diseases of Women and Children.

This may be attended either as one complete course of at least six months, embracing both branches of the subject, or as two courses of three months each, one in Midwifery, the other in Diseases of Women and Children. These two courses must not be simultaneous.

(*f*) Materia Medica, Pharmacology, and Therapeutics, a Three Months' Course (if not attended during Second Year).

(*g*) Practical Pharmacy,* a Three Months' Course, with Lectures on at least two days in the week, given in a recognised School in a properly equipped Laboratory by a duly appointed Lecturer on Pharmacy.

(This Course may be attended before, at the same time as, or after that on Materia Medica, but must be attended in the Third Year.)

(*h*) Hospital Attendance.

Attendance during a *Winter* Session of Six Months, and a *Summer* Session of Three Months at a General Hospital recognised by the University, and at the Clinical Lectures delivered therein.

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* *All* Candidates are required to lodge Certificates of having attended this Course in accordance with these regulations.

(*i*) Fever Hospital.

Attendance* during a period of *Three* consecutive months at a Fever Hospital of repute, or in the Fever Wards of a General Hospital. If the attendance takes place during a regular Winter or Summer Session, it may be reckoned as a portion of the prescribed total Hospital attendance of thirty-three months.

But neither attendance at a Fever Hospital, nor the "Personal Charge" of Fever cases, can be recognised, where it takes place prior to attendance at the course of Lectures on Theory and Practice of Medicine.

(*j*) Attendance* on at least six *post-mortem* examinations.

(*k*) Attendance* for at least three consecutive months in a General Hospital as Clinical Clerk, and three consecutive months as Dresser; such attendances not to be simultaneous.

Fourth Year.

No certificate of attendance at instruction in any of the branches of study assigned to the Fourth Year will be accepted, where such attendance appears to have taken place prior to the completion of the Third Year of Medical Studies, except as herein provided.

The Fourth Year's Course comprises the following subjects at least:—

(*a*) Such of the following as may not have been attended during the Third Year of Medical Studies:—

1. Medicine, a Six Months' Course.
2. Surgery, a Six Months' Course.
3. Midwifery, and Diseases of Women and Children, a Six Months' Course.

(*b*) Operative Surgery.

The course of instruction must be given in a recognised Medical School by a duly appointed Lecturer in Surgery. The Certificate of attendance must show that the Candidate has attended at least three-fourths of the whole period of the Course, such attendances not to be under any circumstances less than on twenty-four distinct days; and that the Candidate himself has, during such Course, performed at least four major operations on the dead subject under the direction of the Lecturer.

Printed forms for this Certificate may be had on application.

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* Any of these attendances may take place at any time during the Third, Fourth, or Fifth Years.

(*c*) Medical Jurisprudence, a Three Months' Course.

(*d*) Pathology, a Three Months' Systematic Course of at least two lectures per week in a recognised Medical School.

Practical Pathology, a Three Months' Laboratory Course of at least three days per week in a recognised Medical School.

These Courses may be taken simultaneously.

(*e*) Ophthalmology and Otology, a Three Months' Systematic Course in a recognised Medical School. This course may be attended either before or the same time as, but not after, the Hospital attendance in these subjects.

(*f*) Hospital attendance.

Attendance during a *Winter* Session of Six Months and a *Summer* Session of Three Months at a General Hospital recognised by the University, and at the Clinical Lectures delivered therein.

(*g*) Fever Hospital.

Attendance during a period of *Three* consecutive months at a Fever Hospital of repute, or in the Fever Wards of a General Hospital, if not attended during Third Year.

(*h*) Attendance on at least six *post-mortem* examinations. if not attended during Third Year.

(*i*) Attendance for at least three months in a General Hospital as Clinical Clerk, and three months as Dresser; such attendance not to be simultaneous, if not attended during Third Year.

Fourth and Fifth Years.

Attendance on the remaining parts of the Medical Curriculum may take place during either the Fourth or the Fifth Year. These parts are—

(*a*) Sanitary Science. A Three Months' Systematic Course in a recognised school. This course shall include practical demonstrations on Hygienic Apparatus and Models, and visits to Institutions and Buildings where Sanitary Appliances may be inspected.

(*b*) Mental Diseases.

A Three Months' Course in a recognised Institution where Clinical Instruction on Mental Diseases is given.

(*c*) Practical Midwifery.

Attendance for a period of six months at a recognised Midwifery Hospital, containing not less than fifteen beds in regular occupation where Clinical Instruction in Midwifery and Diseases of Women and Children is given, or for six months at a Midwifery Dispensary recognised by the Senate, where similar Clinical Instruction is given. During this period the Candidate is required to attend at least *twenty* Labours, of *ten* of which at least he must have had personal charge.

(*d*) Ophthalmology and Otology. Attendance for a period of three months at a recognised Hospital, having at least ten beds devoted to diseases of the Eye and Ear.

(*e*) Fever Hospital.

Attendance during a period of *three* consecutive months at a Fever Hospital of repute, or in the Fever Wards of a General Hospital if not already attended.

(*f*) Attendance on at least six complete *post-mortem* examinations, if not already attended.

(*g*) Attendance for at least three months in a General Hospital as Clinical Clerk, and three months as Dresser; such attendance not to be simultaneous, if not already attended.

(*h*) Personal charge of at least ten Fever cases.

Printed Forms of Certificate of "Personal charge" of cases may be had on application.

N.B.—The expression *personal charge* implies that the student fulfils towards the case the duties commonly assigned to a Clinical Clerk.

Attendance in a Fever Hospital, or on Fever Cases, must not take place during the period of attendance on Practical Midwifery and Gynæcology.

(*i*) Vaccination.

A course of practical instruction under a Public Vaccinator, including attendance on at least ten distinct days at a Dispensary when vaccination is being performed.

Printed Forms for this Certificate may be had on application.

Fifth Year.

Hospital Attendance. Attendance during a *Winter* Session of Six Months at a recognised General Hospital, and at the Clinical Lectures delivered therein.

Examinations in Medicine.

Schedule of Marks.*

First Examination.

	Marks.
Natural Philosophy,	100
Chemistry (Systematic),	100
Botany,	75
Zoology,	75

Second Examination.

Anatomy (Theoretical, Practical),	150
Physiology (Theoretical, Practical),	150
Chemistry (Practical),	100

* At all Professional Examinations one-half of the maximum number of marks assigned to a subject will be the general Pass Standard.

Third Examination.

	Marks.
Anatomy,	100
Physiology,	100
Materia Medica, Pharmacology, and Therapeutics,	80

The M.B., B.Ch., B.A.O. Degrees Examination.

This Examination consists of three parts:—

(*a*) Medicine, Theoretical and Clinical, including Therapeutics, Mental Diseases, Medical Jurisprudence, Sanitary Science, and Medical Pathology.

(*b*) Surgery, Theoretical, Clinical, and Operative, including the use of Instruments and appliances; Surgical Anatomy; Ophthalmology and Otology, Surgical Pathology.

(*c*) Midwifery and Diseases of Women and Children.

SCHEDULE OF MARKS.

Medicine,	100
Surgery,	100
Midwifery, and Gynæcology,	100
Medical Jurisprudence,	50
Pathology,	50
Sanitary Science,	50
Ophthalmology and Otology,	25

M.D. Degree.

Three Academical Years after Primary Degrees.

Subjects:

Medicine and Pathology.

M.Ch. Degree.

Three Academical Years after Primary Degrees.

Subjects:

Surgery (Theoretical and Practical), including Ophthalmology and Otology; Surgical Pathology, Surgical Anatomy and Operative Surgery, with the use of surgical instruments and appliances.

M.A.O. Degree.

Three Academical Years after Primary Degrees.

Subjects:

Midwifery, Diseases of Women and Children, Pathology, Use of instruments and appliances.

Diploma in Sanitary Science (conferred only on Graduates in Medicine of the University one year after obtaining the M.B., B.Ch., B.A.O. Degrees.)

Subjects:

Physics.
Climatology.
Chemistry.
Microscopy.
Bacteriology.
Geology.
Sanitary Engineering.
Hygiene, Sanitary Law, and Vital Statistics.

Diploma in Mental Diseases (conferred only on Graduates in Medicine of the University). The subjects are those prescribed for the Hutchinson Stewart Scholarship, for proficency in the treatment of Mental Diseases.

School of Engineering.

B.E. Degree.

All Candidates for the Degree must pass the following Examinations:

The Matriculation Examination.
The First University Examination.
The First Professional Examination.
The Second Professional Examination.
The Degree Examination.

First Professional Examination

One Academical Year after Matriculation.

No Candidate can be adjudged to have passed this Examination with a view to proceeding to a Degree in Engineering unless he shall have previously passed the First University Examination, or unless he shall pass it in the same Calendar year in which he passes this Examination.

Subjects, and Schedule of Marks:*

1. Mathematics, ... 200.
2. Experimental Physics, . . . 100.
3. Systematic Chemistry, . . . 100.
4. Drawing and Descriptive Architecture, 200.

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* At all Professional Examinations one-half of the maximum number of marks assigned to a subject will be the general Pass Standard.

Second Professional Examination.

One Academical Year after First Professional Examination.

Subjects, and Schedule of Marks: *

1.	Mathematics, ...	200.
2.	Mathematical Physics, ...	100.
3.	Practical Chemistry, ...	100.
4.	Practical Engineering, ...	200.

B.E. Degree.

One Academical Year after Second Professional Examination.

Subjects, and Schedule of Marks: *

1.	Mathematical Physics, . . .	200.
2.	Geology, including Physical Geography,	100.
3.	Civil Engineering, ...	400.
4.	Drawing, ...	100.

Diploma in Engineering.

A Diploma in Engineering will be granted to any Candidate who, without having passed the Matriculation and First University Examination, passes the Two Professional and the Degree Examinations.

M.E. Degree.

One Academical Year after B.E.

Candidates must furnish evidence of having spent one year at least under an Engineer in practice after having obtained the Degree of B.E.

Subjects:

1. Applied Natural Philosophy.
2. Engineering.

Degrees in Music.

B.Mus. Degree.

All Candidates for the Degree must pass the following Examinations:—

The Matriculation Examination.
The First University Examination.
The First Examination in Music.
The Degree Examination.

D.Mus. Degree.

Three Academical Years after B.Mus.

The detailed accounts of the subjects of Royal University Examinations (which may vary from year to year) are to be found in the University Calendar.

* At all Professional Examinations one-half of the maximum number of marks assigned to a subject will be the general Pass Standard.

Table of University Fees.

	£	s.	d.	£	s.	d.
For the Matriculation Examination,				1	0	0
,, First University Examination,				1	0	0
,, Second University Examination in Arts,				1	0	0
,, B.A. Degree Examination,	1	0	0	3	0	0
Upon admission to Degree,	2	0	0			
For the M.A. Degree Examination,	2	0	0	4	0	0
Upon admission to Degree,	2	0	0			
For the D.Lit. Degree Examination,	2	0	0	5	0	0
Upon admission to Degree,	3	0	0			
For the D.Ph. Degree Examination,	2	0	0	5	0	0
Upon admission to Degree,	3	0	0			
For the B.Sc. Degree Examination,	1	0	0	4	0	0
Upon admission to Degree,	3	0	0			
For the D.Sc. Degree Examination,	2	0	0	5	0	0
Upon admission to Degree,	3	0	0			
For the Studentship Examination,				2	0	0
,, Junior Fellowship Examination,				2	0	0
,, First Professional Examination in Engineering,				1	0	0
,, Second Professional Examination in Engineering,				1	0	0
,, B.E. Degree Examination,	1	0	0	3	0	0
Upon admission to Degree,	2	0	0			
Upon admission to the Diploma in Engineering,				2	0	0
For the M.E. Degree Examination,	2	0	0	4	0	0
Upon admission to Degree,	2	0	0			
For the First Examination in Music,				1	0	0
,, B. Mus. Degree Examination,	1	0	0	3	0	0
Upon admission to Degree,	2	0	0			
For the D. Mus. Degree Examination,	2	0	0	5	0	0
Upon admission to Degree,	3	0	0			
For the First Examination in Medicine,				1	0	0
,, Second Examination in Medicine,				1	0	0
,, Third Examination in Medicine,				1	0	0
,, Examination for the M.B., B.Ch., B.A.O. Degrees,				2	0	0
,, Qualifying Certificate,				10	0	0
,, M.D. Degree Examination,	2	0	0	5	0	0
Upon admission to Degree,	3	0	0			
For the M.Ch. Degree Examination,	2	0	0	5	0	0
Upon admission to Degree,	3	0	0			
For the M.A.O. Degree Examination,	2	0	0	5	0	0
Upon admission to Degree,	3	0	0			
For the Diploma in San. Science Examination,	2	0	0	5	0	0
Upon admission to Diploma,	3	0	0			
For the Examination for Hutchinson Stewart Mental Diseases Scholarship, and Diploma for Mental Diseases,	2	0	0	5	0	0
Upon admission to the Diploma,	3	0	0			
For the Medical Studentship Examination,				2	0	0
For the First Examination in Law,				1	0	0
,, LL.B. Degree Examination,	1	0	0	4	0	0
Upon admission to Degree,	3	0	0			
For the LL.D. Degree Examination,	2	0	0	5	0	0
Upon admission to Degree,	3	0	0			

N.B.—A Fee paid for any Examination cannot under any circumstances be returned, or made available for any Examination subsequent to or other than that for which it was paid.

The attention of Students is particularly directed to the notices specifying the last days for sending in notices of intention to be present at Examinations. (Within fourteen days after the date aforesaid, Candidates may enter on paying a late fee of ten shillings additional.)

These dates will be found in the University Calendar.

Exhibitions, Medals, Scholarships, Studentships, and Fellowships in Arts.

1. The following *Exhibitions* may be awarded annually, in Arts, by the Senate:—

   At *Matriculation*—Ten First Class of £24 each, and twenty Second Class of £12 each.

   At *First University Examination*—Ten First Class of £30 each, and twenty Second Class of £15 each.

   At *Second University Examination*—Eight First Class of £36 each, and sixteen Second Class of £18 each.

   At *B.A. Degree Examination*—Seven First Class of £42 each, and fourteen Second Class of £21 each.

2. *Dr. Henry Hutchinson Stewart Scholarship in Arts.*

   Value £30 annually, tenable for 3 years, awarded in connection with Summer Examinations, on combined Honour marks, at Second University Examination in Arts in the year, and First University Examination in the year immediately preceding, in English and in a Modern language.

3. *Chancellor's Gold Medal for English Prose Composition.* Subject for 1899—"Charlemagne." Limited to Graduates of not more than three years' standing.

4. *Medals.*

   The Senate may award Gold Medals to those who take first place in any of the Courses appointed for M.A. Degree.

5. ***English and Latin Verse Compositions.***

Two Gold Medals are offered annually for competition—the one for the best English Verse Composition, and the other for the best Latin Verse Composition. Each competitor must be either an Undergraduate or a Graduate of not more than one year's standing.

Subjects for 1899.—

English—Battle of Lepanto.
Latin—Retreat from Moscow.

6. *Scholarships.*

The Senate offer for competition in October, 1898, ten Scholarships, tenable for three consecutive years, viz.:—Five First Class at £40 per annum each, and five Second Class at £20 per annum each.

Of these Scholarships two First Class and two Second Class are offered for proficiency in Classics, two First Class and two Second Class for proficiency in Mathematics, and one First Class and one Second Class for proficiency in Modern Literature.

They are open to Matriculated Students of the University from the time of their Matriculation up to and including the Scholarship Examination held next after they shall have passed the First University Examination, subject to the following conditions:—

1. That the Candidate shall be under twenty-one years of age on the first day of January of the year in which the Scholarship Examination is held.
2. That the Candidate shall have obtained Honours either at the Matriculation Examination or at the First University Examination in the subject of the Scholarship for which he is a Candidate, or in one of the subjects if there be more than one.
3. That the Candidate shall not be a Matriculated Student of any other University.
4. That in the case of the Scholarships in Modern Literature the Candidate shall be a natural-born subject of the Crown.

These Scholarships may be held together with the Exhibitions awarded at the various University Examinations, but no person shall hold more than one Scholarship, and if the answering of any Candidate be such as to qualify for two or more, the Senate shall determine in which subject the Candidate shall be elected a Scholar.

It shall be in the power of the Senate to substitute Second Class Scholarships in any cases in which in their opinion the answering was not sufficient to merit First Class Scholarships, and whenever the Senate shall consider it necessary to withhold one or more of the Scholarships offered in any subject, they may award such Scholarships as additional Scholarships in either of the other subjects, if in their opinion the answering in such subject is deserving thereof.

7. *Studentships.*

Five are offered annually for competition, value £100 per annum each, tenable for three consecutive years. They are awarded in connection with M.A. Examinations.

Candidates must be under 26 years of age on the first day of January of the year in which the Studentship Examination is held.

8. *Junior Fellowships.*

In October, 1899, there will be offered for competition among the Graduates in Arts of the University of not less than two years standing, three Junior Fellowships. Such Fellowships shall be tenable for four consecutive years, and shall be of the annual value of £200 each. Junior Fellows shall be bound to take part in the conduct of University Examinations.

The subjects in which these Fellowships will be awarded will be:—

I. English and History.
II. Natural Philosophy (Mathematical Physics and Experimental Physics).
III. Natural Science.

Faculty of Law Exhibitions.

The Senate may award the following:—

One First Class Exhibition of £20, and one Second Class Exhibition of £10, at First Examination in Law.

One First Class Exhibition of £42, and one Second Class Exhibition of £21, at LL.B. Degree Examination.

Engineering Exhibitions.

The following may be awarded annually by the Senate :—

One First Class Exhibition of £30, and one Second Class of £15, at First Professional Examination.

One First Class of £36, and one Second Class of £18, at Second Professional Examination.

At B.E. Degree Examination, one First Class of £42, and one Second Class of £21.

Faculty of Medicine.

The following Exhibitions may be awarded annually by the Senate :—

At *First Examination in Medicine*—Two First Class of £20 each; two Second Class of £10 each.

At *Second Examination in Medicine*—Two First Class of £25 each ; two Second Class of £15 each.

At *Third Examination in Medicine*—Two First Class of £30 each; two Second Class of £20 each.

At the *M.B., B.Ch., B.A.O. Degrees Examination*—Two First Class of £40 each ; two Second Class of £25 each.

Travelling Medical Scholarship.

An Examination for this Scholarship, value £100, is held in October. The subjects are in rotation :—

1. Anatomy and Histology (1896).
2. Physiology and Pathology (1897).

Dr. Henry Hutchinson Stewart's Medical Scholarships.

One, value £10, tenable for three years in subjects of Second Examination in Medicine.

One, value £50, tenable for three years, for competition among Medical Graduates of not more than two years' standing, for proficiency in Mental Diseases.

Medical Studentship.

A Studentship in Medicine, value £200, tenable for two years, will be offered for competition among Graduates in Medicine of the University in October, 1899.

Subjects of Examination :—

1. Physiology.
2. Physiological Chemistry.

II.—UNIVERSITY OF LONDON.

All Candidates for Degrees in the University of London are required to pass the General Matriculation Examination.

Degrees in the Faculty of Arts.

Candidates for the Degree of B.A. are required to pass the Intermediate Examination in Arts, after the lapse of one Academical year from the date of passing the Matriculation Examination, and the Degree Examination after the lapse of one year from the date of passing the Intermediate Examination.

Candidates for the Degree of M.A. are admitted to the Examination after the lapse of an Academic year from the date of obtaining B.A., provided they have attained the age of twenty.

Candidates for the Degree of D. Lit. must have obtained the Degree of M.A. in the University, and will be admitted to the Examination for the Degree of D.Lit., at an interval of at least one Academical year from the date of the M.A. Examination.

Candidates will be admitted to the Intermediate Examination in Science after the expiration of one Academical Year from the date of the Matriculation Examination, and to the B.Sc. Examination after the lapse of one further Academical Year. Two Academical years must elapse from date of the B.Sc. Examination before the Candidate can be admitted to the Examination for the Degree of D.Sc.

Degrees in the Faculty of Law.

No Candidate will be admitted to the Intermediate in Laws within eleven months from the date of his Matriculation Examination, nor to the LL.B. Degree Examination within less than two years from the date of his Intermediate LL.B. Examination, unless he have already graduated in one of the Faculties of the University, in which case he may be admitted after the lapse of one year.

No Candidate under the age of thirty will be admitted to the Examination for the Degree of LL.D. until after the expiration of two Academical years from the date of his passing the LL.B. Examination.

Medicine.

Bachelor of Medicine (*M.B.*)

Every Candidate for the Degree of Bachelor of Medicine shall be required:—

1. To have passed the Matriculation Examination in this University not less than five years previously.
2. To have passed the Preliminary Scientific (M.B.) Examination not less than four years previously.
3. To have been engaged in his Professional Studies during five years subsequent to Matriculation, and four years subsequent to passing the Preliminary Scientific Examination, at one or more of the Medical Institutions or Schools recognized by this University; one year, at least, of the four to have been spent in one or more of the recognized Institutions or Schools of the United Kingdom.
4. To pass two Examinations in Medicine.

Preliminary Scientific (*M.B.*) *Examination.*

No Candidate shall be admitted to this Examination unless he has passed the Matriculation Examination.

Intermediate Examination in Medicine.

No Candidate shall be admitted to this Examination unless he has passed the Preliminary Scientific Examination at least two years previously.

M.B. Examination.

No Candidate shall be admitted to this Examination within twenty-one months of the time of his passing the Intermediate Examinations.

A Candidate for the Degree of B.S. (Bachelor of Surgery) must have passed the Examination for the Degree of M.B.,

and produce certain required certificates. Candidates for the Degree of M.S. (Master in Surgery) must have taken the Degree of B.S. at least two years previously, and produce certain required certificates. Candidates for the Degree of M.D. must have taken the Degree of M.B. at least two years previously, and must produce certain required certificates.

Candidates for the Degree of M.D. in *State Medicine* must have taken the Degree of M.B. at least two years previously, and must produce certain required Certificates.

For further information see the Calendar of the University of London, which may be consulted in the College Library.

III.—ROYAL COLLEGES OF PHYSICIANS AND SURGEONS OF IRELAND, ENGLAND, AND SCOTLAND.

A.—*Conjoint Examinations in Ireland by the Royal College of Physicians and Royal College of Surgeons.*

1. Every Student must be registered in the books of the General Medical Council. No credit will be given for study, unless registration shall have been effected within fifteen days of its commencement.

Five years' Course (obligatory on all Candidates commencing their studies on or after 1st January, 1892).

First Professional Examination.

Subjects.

1. (*a*) Chemistry; (*b*) Physics. 2. Practical Pharmacy. 3. Elementary Biology. 4. Anatomy.

This Examination may be taken in four parts. Fee £15 15*s*.

Second Professional Examination.

Subjects.

1. Anatomy. 2. Histology. 3. Human Physiology. 4. Materia Medica. Fee £10 10*s*.

Third Professional Examination.

Subjects.

1. Medicine. 2. Surgery. 3. Pathology. 4. Therapeutics. 5. Public Health and Forensic Medicine. Fee £9 9*s*.

Fourth (Final) Examination.

Subjects.

1. Medicine. 2. Surgery. 3. Operative Surgery. 4. Ophthalmic and Aural Surgery. 5. Midwifery. Fee £6 6*s*.

Full information may be had on application to the Secretary of Committee of Management, Royal College of Physicians, Kildare-street, Dublin.

B.—*Regulations of the Examining Board in England (Royal College of Physicians and Royal College of Surgeons), for Candidates who commenced their Professional Studies on or after 1st January*, 1892.

Professional Examinations.

First Examination.

1. Chemistry and Physics. 2. Practical Pharmacy. 3. Elementary Biology.

This Examination may be taken in three parts at different times, or the whole may be taken at one time. Fee £10 10*s*.

Second Examination.

1. Anatomy. 2. Physiology. Fee £10 10*s*.

Third or Final Examination.

Part I.—Medicine, including Medical Anatomy, Pathology, Practical Pharmacy (if not previously passed), Therapeutics, Forensic Medicine, and Public Health.

Part II.—Surgery, including Pathology, Surgical Anatomy, and the use of Surgical Appliances.

Part III.—Midwifery and Diseases of Women.

Fee (for whole Examination) £15 15*s*.

Synopses indicating the range of subjects in the several examinations, and full information as to the course of study required, and certificates prescribed, may be obtained of the Secretary, Examination Hall, Victoria Embankment, London, W.C.

C.—*Conjoint Examinations in Scotland of the Royal College of Surgeons and Royal College of Physicians, Edinburgh, and Faculty of Physicians, Glasgow (Triple Qualification), for Candidates who began study on or after* 1st *January*, 1892.

First Examination.

Elementary Biology, Physics, Chemistry. Fee £5.

Second Examination.

Anatomy and Physiology, including Histology. Fee £5.

Third Examination.

Pathology, Materia Medica, and Pharmacy. Fee £5.

Final Examination.

Medicine, Surgery, Midwifery and Gynæcology, Medical Jurisprudence, and Hygiene. Fee £15.

(The total Fee is raised to £30.)

The Registrar for Edinburgh is James Robertson, Esq., Solicitor, 48, George-square, Edinburgh.

The Registrar for Glasgow is Alexander Duncan, Esq., Faculty Hall, St. Vincent-street, Glasgow, from whom full Programmes may be had.

IV.—REGULATIONS PRESCRIBED BY GENERAL MEDICAL COUNCIL RESPECTING MEDICAL COURSES IN AND AFTER 1892.

With regard to the Course of Study and Examinations which persons desirous of qualifying for the Medical Profession shall go through in order that they may become possessed of the requisite knowledge and skill for the efficient practice of the Profession, the General Medical Council have resolved that the following conditions ought to be enforced without

exception on *all* who commence their Medical Studies at any time after January 1, 1892 :—

(*a*) With the exception provided below, the period of Professional Studies between the date of Registration as a Medical Student and the date of Final Examination for any Diploma which entitles its bearer to be registered under the *Medical Acts*, must be a period of *bonâ fide* study during not less than five years.

The first four of the five years of Medical Study should be passed at a School or Schools of Medicine recognised by any of the Licensing Bodies, provided that the First Year may be passed at a University, or Teaching Institution, recognised by any of the Licensing Bodies, where the subjects of Physics, Chemistry, and Biology are taught.

The Examination in the Elements of Physics, Chemistry, and Biology should be passed before the beginning of the Second Winter Season.

The exception referred to above in (*a*) is as follows :—

Graduates in Arts or Science of any University recognised by the Medical Council, who shall have spent a year in the Study of Physics, Chemistry, and Biology, and have passed an Examination in these subjects for the Degrees in question, should be held to have completed the first of the five years of Medical Study.

V.—THE BAR.

Extract from Educational Regulations of the Honourable Society of King's Inns :—

XX. Graduates of the Queen's University in Ireland, Royal University of Ireland, Oxford, Cambridge, and London Universities, may qualify for call to the Bar by attending two continuous Courses of the Lectures of the two Professors at the King's Inns, and in the case of all such Graduates, except Graduates of the Royal University of Ireland, or of the London University, by attending for a year the Lectures of two of

the Professors of Law in their respective Universities, and passing the Examinations (if any) held by the Professors at the end of each Course ; and in the case of Graduates of the Royal University of Ireland, by attending for one year the Lectures of two of the Professors of Law in one of the Queen's Colleges at Belfast, Cork, or Galway, and passing the like Examinations, if such be held, and in the case of Graduates of the University of London, by attending for one year the Lectures of two of the Professors of Law in University College, and passing the like Examinations if such be held.

VI.—EXAMINATION OF CANDIDATES FOR THE OFFICE OF INSPECTOR OF NATIONAL SCHOOLS.

1. A Competitive Examination, of nominated Candidates, for the office of Inspector of National Schools, will be held in the months of June (elementary) and August (advanced), 1898.

. . . . . .

3. The Competitive Examination will be conducted by the Civil Service Commissioners, upon a programme—Elementary and Advanced Courses—approved by the Commissioners of National Education.

4. No candidate will be admitted to compete unless he shall have been approved as a fit person to be nominated by the Committee of Selection appointed for the purpose. Every Candidate desiring to compete must apply, in writing, to the Commissioners, for a nomination before the 10th day of March, 1898 ; before obtaining a nomination, he must furnish such evidence of his qualifications, good health, character, and conduct as may be required, and he must also present himself, at his own expense, when summoned, before the Committee of Selection at the National Education Office.

5. Candidates, not being National School Teachers or Inspectors' Assistants, must be between the ages of twenty-three and thirty-four years on the 1st January, 1899.

6. Each Candidate successful at the Competitive Examination must be prepared, before his appointment as Inspector,

to undergo a course of training (about six months) in the duties of Inspector and in subjects of a professional nature, and at the conclusion of such course to pass a qualifying Examination in professional subjects, hereinafter referred to as the Professional Examination. The Professional Examination will be conducted by the Officers of the Commissioners, as nearly as possible six months after the commencement of training, and the course of training and the programme of the Professional Examination will be prescribed by the Commissioners from time to time.

. . . . . .

9. Any Candidate unsuccessful at the Competitive Examination in 1898 will be given a second nomination in a subsequent year if he continues otherwise qualified, provided his answering shall have been, in the opinion of the Commissioners, sufficiently meritorious. Under special circumstances, a third nomination may be granted, but no Candidate will be admitted to compete more than three times.

. . . . . .

COURSE OF EXAMINATION FOR CANDIDATES FOR INSPECTORSHIPS UNDER THE BOARD OF NATIONAL EDUCATION, IRELAND.

There will be Two Examinations, viz.:—

I. The Competitive Examination with two parts—Elementary and Advanced—in Subjects of *general culture*, to be conducted by the Civil Service Commissioners.

II. The Professional Examination in *Professional Subjects*, to be conducted under the immediate direction of the Commissioners of National Education.

In the case of each Candidate the Commissioners constituting the "Committee of Selection" must be satisfied—

1. That his testimonials as to character and health are satisfactory.
2. That he expresses himself correctly and distinctly.
3. That he writes a fair legible hand.
4. That he spells accurately.
5. That, in the judgment of the Committee, he is a suitable Candidate for the office of an Inspector of National Schools.

SUBJECTS FOR THE LIMITED COMPETITIVE EXAMINATION HELD BY THE CIVIL SERVICE COMMISSIONERS.

PART I.—ELEMENTARY COURSE.

	Marks.	
1. English Composition,	300	
2. English History and General Geography,	300	
3. Elementary Mathematics, viz.:—		
(*a*) Arithmetic,	400	1,200
(*b*) Algebra, up to and including the Binomial Theorem; the theory and use of Logarithms; also Mensuration of Surfaces and and Solids,	300	
(*c*) Euclid, Books I. to IV. and VI.,	300	
(*d*) Plane Trigonometry, up to and including Solution of Triangles,	200	
4. Latin,	300	
5. French, } One or other of these Languages must be taken; both may be taken.	300	
6. German, }	300	
7. Physics, Elementary Properties of Electricity, Magnetism, Heat, Light and Sound,	300	

Candidates must pass to the satisfaction of the Civil Service Commissioners in the subjects mentioned above.

PART II.—ADVANCED COURSE.

	Marks.
English Composition,	500
Greek Language and Literature,	750
Latin Language and Literature,	750
Irish Language and Literature,	500
English Language and Literature,	500
French Language and Literature,	500
German Language and Literature,	500
Mathematics (pure and applied),	900
Advanced Mathematical subjects (pure and applied)	900

Natural Science, *i.e.* any number not exceeding three of the following subjects:—

Elementary Chemistry,	300
(N.B.—This subject may not be taken up by those who offer Higher Chemistry).	
Higher Chemistry,	600

	Marks.
Higher Physics,	600
Geology,	600
Botany,	600
Zoology,	600
Animal Physiology,	600
Greek History (Ancient, including Constitution),	400
Roman History (Ancient, including Constitution),	400
English History,	500
General Modern History (period to be selected by Candidates from list in the syllabus issued by the Civil Service Commissioners),	500
Logic and Mental Philosophy (Ancient and Modern),	400
Political Economy and Economic History,	500

Candidates are at liberty to name any or all of those branches of knowledge. All Candidates must pass to the satisfaction of the Civil Service Commissioners in English Language and Literature.

The marks assigned to Candidates in each branch, except in Mathematics and English Composition, will be subject to such deduction as the Civil Service Commissioners may deem necessary, in order to secure that "a Candidate be allowed no credit at all for taking up a subject in which he is a mere smatterer."

J. C. TAYLOR,
M. S. SEYMOUR, } *Secretaries.*

Office of National Education,
Marlborough-street, Dublin,
Sept., 1897.

VII.—COUNTY SURVEYORSHIPS.

***Regulations** (framed in pursuance of the Acts 7th and 8th Victoria, cap. 106, and 25th and 26th Victoria, cap. 106) for Examinations for County Surveyorships or for District Surveyorships in Ireland.*

I. The Examination consists of two parts, and will be in the following subjects, viz.:—

PART I.

	Maximum of Marks.
MATHEMATICS—including Geometry, Trigonometry, Algebra, Differential and Integral Calculus, and Geometrical Optics,	100
MECHANICAL PHILOSOPHY—Including Statics and Dynamics, Hydrostatics and Hydraulics, Pneumatics, and Heat regarded as a source of Power,	100
EXPERIMENTAL SCIENCE—Including Inorganic Chemistry, Heat, Electricity, and Magnetism,	100
GEOLOGY AND MINERALOGY,	40

No Candidate will be eligible who does not show some proficiency under one at least of the heads included in Part I.

PART II.

Strength and other Properties of Materials, and the Calculation of Stresses and Strains,	100
(A.) RAILWAY AND CANAL ENGINEERING,	140
(B.) MARINE ENGINEERING—Including Harbour, Dock, Sea, and Reclamation Works,	140
(C.) HYDRAULIC ENGINEERING—Including Water Supply, Sewage, and Irrigation,	140
(D.) COUNTY WORKS—Including Architecture, Roads, Drainage, and River Works,	140
	1000

*** Each of the groups lettered A, B, C, D, to include Designs, Estimates, Specifications, and the mechanical contrivances connected with it; and Candidates will be required to show that they have been engaged in the practice of their profession in a responsible position, in charge of important works, for not less than four years, one of which, at least, shall have been spent in Ireland.

II. No Candidate will be eligible whose age on the first day of the Examination is less than 26 or more than 40.

An Examination will be held in Dublin under the foregoing Regulations in November and December next. Application must be sent in before the 11th November, 1898.

CIVIL SERVICE COMMISSION,
16th October, 1896.

VIII.—MEDICAL COMMISSIONS IN THE ARMY, NAVY, AND INDIAN SERVICES.

Limits of Age, 21–28 *at date of Examination.*

Candidates, who must be registered as qualified to practise Medicine and Surgery, will be examined in the following compulsory subjects, and the highest marks attainable will be distributed as follows:—

	Marks.
(*a*) Surgery,	1200
(*b*) Medicine, including therapeutics, and diseases of women and children,	1200
(*c*) Anatomy and physiology,	600
(*d*) Chemistry and pharmacy, and a practical knowledge of drugs,	600

Voluntary Subjects.

*Modern Languages—

French,	200
German,	200

Natural Sciences—

A candidate may not present himself for examination in more than two of the following subjects:—

(*a*) Physics,	300
(*b*) Zoology,	300
(*c*) Geology and physical geography,	300
(*d*) Botany,	300

N.B.—The Examination in Medicine and Surgery will be in part practical, and will include operations on the dead body, the application of Surgical apparatus, and the examination of Medical and Surgical patients at the bedside. The Examination in Chemistry will be limited to the elements of the science, and to its application to Medicine, Pharmacy, and Practical Hygiene; and the Examination in Materia Medica will include a knowledge of the Physiological actions and Therapeutical uses of drugs.

* Candidates for India may add Hindustani (200 marks.)

No Candidate shall be considered eligible who shall not have obtained at least *one-third* of the maximum marks in each of the above *compulsory subjects*. For the Army, and India, one-half of the aggregate of marks for *all* the compulsory subjects must be obtained, as well as a minimum of one-third in each compulsory subject.

A number less than one-third of the marks obtainable in each of these *voluntary subjects* will not be allowed to count in favour of the Candidate who has qualified in the *compulsory subjects*.

The knowledge of Modern Languages being considered of great importance, all intending competitors are urged to qualify in French and German.

MEDICAL COMMISSIONS.

Further information may be had from the following authorities:—

NAVY:—Director-General, Medical Department, Admiralty, Northumberland-avenue, London, W.C.

ARMY:—Adjutant-General to the Forces, Horse Guards, War Office, Pall Mall, London, S.W.

INDIA:—Military Secretary, India Office, Westminster, London, S.W.

IX.—HOME CIVIL SERVICE.

CLERKSHIPS (CLASS I).—REGULATIONS.

1. Candidates must have attained the age of 22, and must not have attained the age of 24 on the first day of the Competitive Examination.

EXTRACT FROM THE REGULATIONS RESPECTING OPEN COMPETITIVE EXAMINATIONS FOR CLERKSHIPS (CLASS I.) IN THE CIVIL SERVICE.

"Out of the list resulting from each Examination will be filled (provided there be Candidates duly qualified):—

(*a*) All the vacancies in Class I. which may have been reported to the Civil Service Commissioners up to the date of the announcement of the result of the Examination.

(*b*) Any additional vacancies occurring within six months from the date of the announcement of the result of the Examination, which the Head of the Department may desire to have so filled.

Candidates will be allowed to choose, according to their place on the list, among the vacancies (*a*) for which they are duly qualified; or they may elect to wait for the chance of a vacancy (*b*). When vacancies (*b*) occur, they will be offered in rotation to the qualified Candidates then on the list, who will be free to decline them without forfeiting their claim to subsequent vacancies (*b*).

The subjects of Examination for the Home Civil Service are substantially the same as those prescribed for the Indian Civil Service.

Further information with regard to appointments in the Post Office, War Office, and Admiralty, may be obtained on application to the Secretary, Civil Service Commission, London, S.W.

X.—CIVIL SERVICE OF INDIA.

No person will be deemed qualified who shall not satisfy the Civil Service Commissioners:—(i.) That he is a natural-born subject of Her Majesty. (ii.) That his age will be above twenty-one years and under twenty-three years on the 1st day of the year in which the Examination is held. (iii.) That he has no disease, constitutional affection, or bodily infirmity unfitting him, or likely to unfit him, for the Civil Service of India. (iv.) That he is of good moral character.

For the Examination commencing on the 2nd August, 1898, application must be made on the prescribed form on or before the 31st May, 1898, accompanied by a list of the subjects in which the Candidate desires to be examined. Further information with regard to appointments in the Post Office, War Office, and Admiralty, may be obtained on application to the Secretary, Civil Service Commission, London, S.W.

Should the evidence upon the above points be *prima facie* satisfactory to the Civil Service Commissioners, the Candidate, on payment of the prescribed fee, will be admitted to the examination.

The Open Competitive Examination will take place only in the following branches of knowledge:—

	Marks.
English Composition,	500
Sanskrit Language and Literature,	500
Arabic, ditto, ditto,	500
Greek, ditto, ditto,	750
Latin, ditto, ditto,	750
English, ditto, ditto (including special period named by the Commissioners), *	500
French Language and Literature,	500
German, ditto, ditto,	500
Mathematics (pure and applied),	900
Advanced Mathematical subjects (pure and applied),	900
Natural Science, *i.e.* any number not exceeding *three* of the following subjects:—	
Elementary Chemistry and Elementary Physics, (N.B.—This subject may not be taken up by those who offer either Higher Chemistry or Higher Physics.) Higher Chemistry, Higher Physics, Geology, Botany, Zoology, Animal Physiology,	600 each = 1800
Greek History (Ancient, including Constitution),	400
Roman History (ditto, ditto),	400
English History,	500
General Modern History (period to be selected by Candidates from list in the Syllabus issued by the Commissioners), *	500
Logic and Mental Philosophy (Ancient and Modern),	400
Moral Philosophy (Ancient and Modern),	400
Political Economy and Economic History,	500
Political Science (including Analytical Jurisprudence, the Early History of Institutions, and Theory of Legislation),	500
Roman Law,	500
English Law. Under the head of "English Law" shall be included the following subjects, viz.:— (1) Law of Contract; (2) Law of Evidence; (3) Law of the Constitution; (4) Criminal Law; (5) Law of Real Property; and of these five subjects Candidates shall be at liberty to offer any four, but not more than four,	500

* A Syllabus, defining in general terms the character of the Examination in the various subjects, may be obtained on application to the Secretary, Civil Service Commission.

Candidates are at liberty to name any or all of these branches of knowledge. No subjects are obligatory.

The marks assigned to Candidates in each branch will be subject to such deduction as the Civil Service Commissioners may deem necessary, in order to secure that "no credit be allowed for merely superficial knowledge." Marks assigned in English Composition and Mathematics will be subject to no deduction. Each science will, for the purpose of deduction, be treated as a separate subject. The Examination will be conducted on paper and *viva voce*.

The Candidates who obtain the greatest aggregate number of marks will be deemed to be selected Candidates for the Civil Service of India, provided they appear to be in other respects duly qualified.

Should any of the selected Candidates become disqualified, the Secretary of State for India will determine whether the vacancy shall be filled up or not. In the former case, the Candidate next in order of merit, and in other respects duly qualified, shall be deemed to be a selected Candidate.

Examinations for Eastern Cadetships, viz.:

FOR CADETSHIPS IN THE CIVIL SERVICES OF CEYLON AND OF HONG KONG, THE STRAITS SETTLEMENTS, AND THE PROTECTED STATES OF THE MALAY PENINSULA.

[The next Examination for Eastern Cadetships will be held under these Regulations. Alterations may be made for any subsequent Examination.]

1. The Cadets, who must be natural-born British subjects, are selected by open competitive examination held by the Civil Service Commissioners, to whom all inquiries on the subject should be addressed.

The examinations for these appointments will, as a rule, be held in the month of August of those years in which vacancies have occurred in the Civil Service of Ceylon or in that of Hong Kong, the Straits Settlements, and the Protected States of the Malay Peninsula; and the successful Candidates will be allotted as and when opportunity offers, to the various

Colonies or States in which vacancies may exist upon a consideration of all the circumstances, including their own wishes; but the requirements of the Public Service will rank before every other consideration, and the Secretary of State retains full discretion to allot as he thinks fit.

2. Candidates must be between the ages of 21 and 24 on the first day of August in the year in which the Examination is held, and must satisfy the Civil Service Commissioners that they are duly qualified in respect of health and character. They must be of sound constitution, possessed of good sight, and physically qualified for service in tropical climates, and they will be called upon to undergo a strict medical examination to test these points.

3. The subjects of the Examination are the same as those prescribed for the Indian Civil Service.

4. Application for permission to attend one of these Examinations must be made in the writing of the Candidate, at such times and in such manner as may be fixed by the Commissioners.

CIVIL SERVICE COMMISSION, LONDON, S.W.,
19*th April*, 1898.

Forest Service of India.

(*Limits of Age*, 17–20.)

The Examination, which is conducted by the Civil Service Commissioners, usually takes place towards the end of June.

SUBJECTS OF EXAMINATION.

Class I.—Obligatory Subjects.

[In each of these subjects a Candidate must obtain not less than one-third of full marks in order to qualify.]

	Marks.
1. Mathematics (lower), viz. Algebra up to and including the Binomial Theorem; the Theory and the Use of Logarithms; Euclid, Books I. to IV. and VI.; Plane Trigonometry up to and including the Solution of Triangles; and Mensuration, . . .	2500
2. English Composition, ...	1000
3. German (400 for colloquial), ...	2000

Class II.—Optional Subjects.

[A Candidate may take any two, but not more than two, of the optional subjects.]

	Marks.
4. Mathematics (higher), including Analytical Geometry, Conic Sections, Statics, and Dynamics, . .	2000
5. French (400 for colloquial), ...	2000
6. Latin, ...	2000
7. Greek, ...	2000
8. English History. There will be set—one General Paper; one Paper limited to a fixed period, which will be from the year 1660 to the year 1727 for the Examination in 1897, ...	2000
*9. Botany, viz. the Elementary parts of Vegetable Morphology, Histology, and Physiology, and the Principles of a Natural System of Classification as illustrated by the more important British natural orders. Candidates will be desired to describe plants in technical language. Questions will not be set on Vegetable Palæontology or on the Geographical Distribution of Plants, ...	2000
*10. Chemistry, viz. the Elements of Inorganic Chemistry,	2000
*11. Physics. Elementary properties of Electricity, Magnetism, Heat, Light, and Sound, ...	2000
*12. Physical Geography and Geology, chiefly Economic; including the recognition of the more familiar minerals and rocks, and their properties and uses, .	2000

Class III.—Additional Subjects.

†13. Freehand Drawing, ...	500
†14. Geometrical Drawing, ...	300

With a view to prevent parents and guardians from incurring the inconvenience and expense of preparing unfit Candidates, it is suggested that the Family Medical Adviser, or any other qualified Medical Practitioner, should be consulted with regard to the following points:—

1. Weak constitution.
2. Defective vision.
3. Impaired hearing.
4. Congenital defects.
5. The condition of teeth.

[This private examination in no way influences the official examination.]

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* Examination partly practical.

† Either or both of these subjects may be taken in addition to the obligatory and the two optional subjects.

An applicant must be a natural-born British subject, and must be above 17 and under 20 years of age on the 1st June of the year in which he competes for an appointment.

Selected Candidates will enter the Forest Service branch of the Royal Indian Engineering College, Cooper's Hill.

REGULATIONS FOR ADMISSION TO THE INDIAN POLICE FORCE THROUGH A COMPETITIVE EXAMINATION IN LONDON IN JUNE, 1899.

The Examination will be simultaneous with, and (except that French may be taken instead of German as an Obligatory Subject) in the same subjects and Papers as, the Examination for the Indian Forest Department, which is usually held in June.

Candidates must be British-born or naturalized British subjects. They must be above 19 and under 21 years of age on the 1st of June, 1899. They must be unmarried, and if they marry before reaching India, they will forfeit their appointments.

Candidates must send to the Secretary, Judicial and Public Department, India Office, on or before 15th May, 1899:—

(*a*) Information as to their names and parentage, certificates (or other satisfactory evidence) of the date of their birth, and the written consent of parent or guardian to their Candidature.

(*b*) A statement of the places at which they have been educated, accompanied by testimonials of good conduct during the last four years.

(*c*) An intimation of their wishes as to the Province or Provinces in which they would prefer to serve, and of any special reasons for such preference.

Candidates will be required to appear before a Medical Board at the India Office and to undergo a strict Examination as to their physique and capacity for active out-door work in the plains of India.

Selected Candidates will be examined by the Civil Service Commissioners as to their ability to ride, and will be required to produce :—

(*a*) A Certificate from the Civil Service Commissioners that they are able to ride well and to perform journeys on horseback; or

(*b*) A Certificate from the Civil Service Commissioners of minimum proficiency in riding.

In the latter case they will be subjected, on their arrival in India, to such further tests in riding as may be prescribed by their Government, and will not be appointed Assistant Superintendents of Police until they shall have passed such tests to the satisfaction of their Government.

The probationer will be required to start for India not later than October, 1899.

India Office, *September*, 1896.

Full regulations for all Home and Indian Competitions may be obtained on application to—

The Secretary, Civil Service Commission,
London, S.W.

EXAMINATION PAPERS, 1898-99.

LITERARY SCHOLARSHIP OF THE FIRST YEAR.

LATIN.

FIRST PAPER.

Examiner—PROFESSOR SANDFORD.

1. Translate, with short notes :—

I.

Is finis sanguinis fuit : dedi inde inermes coepti, et ad praedam miles permissu dictatoris discurrit. Quae quum ante oculos eius aliquantum spe atque opinione maior maiorisque pretii rerum ferretur, dicitur manus ad caelum tollens precatus esse ut, si cui deorum hominumque nimia sua fortuna populique Romani videretur, ut eam invidiam lenire quam minimo suo privato incommodo publicoque populi Romani liceret. Convertentem se inter hanc venerationem traditur memoriae prolapsum cecidisse, idque omen pertinuisse post ea eventu rem coniectantibus visum ad damnationem ipsius Camilli, captae deinde urbis Romanae, quod post paucos accidit annos, cladem. Atque ille dies caede hostium ac direptione urbis opulentissimae est consumptus. Postero die libera corpora dictator sub corona vendidit : ea sola pecunia in publicum redigitur haud sine ira plebis. Et quod rettulere secum praedae, nec duci, qui ad senatum—malignitatis auctores quaerendo—rem arbitrii sui reiecisset, nec senatui, sed Liciniae familiae, ex qua filius ad senatum rettulisset pater tam popularis sententiae auctor fuisset, acceptum referebant.—LIVY v.

II.

Adeo mihi acerbae sunt, Quirites, contentiones cum tribunis plebis, ut nec tristissimi exsilii solatium aliud habuerim quoad Ardeae vixi, quam quod procul ab his certami-

nibus eram, et ob eadem haec non si mille senati consultis populique iussu revocaretis, rediturus umquam fuerim. Nec nunc me ut redirem mea voluntas mutata sed vestra fortuna perpulit: quippe, ut in sua sede maneret patria, id agebatur, non ut ego utique in patria essem. Et nunc quiescerem ac tacerem libenter, nisi haec quoque pro patria dimicatio esset, cui deesse, quoad vita suppetat, aliis turpe—Camillo etiam nefas est.—*Ibid.*

III.

Inter haec tribuni plebis, quum in concordia hominum secundisque rebus civitatis inviti silentium tenuissent, feroces repente minari tribunis militum, nisi in auctoritate senatus essent, se in vincla eos duci iussuros esse. Tum C. Servilius Ahala tribunus militum: 'Quod ad vos attinet, tribuni plebis, minasque vestras, ne ego libenter experirer, quam non plus in his iuris quam in vobis animi esset. Sed nefas est tendere adversus auctoritatem senatus: proinde et vos desinite inter nostra certamina locum iniuriae quaerere, et collegae aut facient quod censet senatus, aut, si pertinacius tendent, dictatorem extemplo dicam qui eos abire magistratu cogat.'—*Ibid.*

IV.

Leucade haec sunt decreta: id caput Acarnaniae erat, eoque in concilium omnes populi conveniebant. Itaque cum haec repentina mutatio Corcyram ad legatum Flamininum perlata esset, extemplo cum classe profectus Leucadem ad Heraeum quod vocant, naves applicuit. Inde cum omni genere tormentorum machinarumque, quibus expugnantur urbes, ad muros accessit, ad primum terrorem ratus inclinari animos posse. Postquam pacati nihil ostendebatur, tum vineas turresque erigere et arietem admovere muris coepit. Acarnania universa inter Aetoliam atque Epirum posita solem occidentem et mare Siculum spectat. Leucadia nunc insula est, vadoso freto, quod perfossum manu est, ab Arcanania divisa: tum paeninsula erat, occidentis regione artis faucibus cohaerens Acarnaniae.—Livy xxxiii.

V.

Sed, ubi ille adsedit, Catilina, ut erat paratus ad dissimulanda omnia, demisso vultu, voce supplici postulare,

'Patres conscripti ne quid de se temere crederent; ea familia ortum, ita ab adolescentia vitam instituisse, ut omnia bona in spe haberet: ne aestimarent, sibi patricio homini, cuius ipsius atque maiorum plurima beneficia in plebem Romanam essent, perdita republica opus esse, cum eam servaret M. Tullius, inquilinus civis urbis Romae.' Ad hoc maledicta alia cum adderet, obstrepere omnes, hostem atque parricidam vocare. Tum ille furibundus: 'Quoniam quidem circumventus,' inquit, 'ab inimicis praeceps agor, incendium meum ruina exstinguam.'—SALLUST.

v.

Sed, per deos immortales! quamobrem in sententiam non addidisti, uti prius verberibus in eos animadverteretur? an, quia lex Porcia vetat? at aliae leges item condemnatis civibus animam non eripi, sed in exilium permitti iubent. An, quia gravius est verberari, quam necari? quid autem acerbum, aut grave nimis in homines tanti facinoris convictos? sin, quia levius? qui convenit in minore negotio legem timere, cum eam in maiore neglexeris? At enim quis reprehendet, quod in parricidas reipublicae decretum erit? Tempus, dies, fortuna, cuius lubido gentibus moderatur.—*Ibid.*

2. (*a*) Give the gist of the remainder of the speech of Camillus, commenced in passage ii.

(*b*) What was the reward given to Manlius for his gallantry on the Capitol? What the reward given to the matrons for their contributions of gold to help the State?

(*c*) Describe the battle of the Allia.

(*d*) rem dubiam decrevit vox opportune emissa. Explain.

(*e*) Summarise the arguments of Caesar and of Cato for their votes in reference to the punishment of the prisoners as given by Sallust.

(*f*) What was the exact date of the consular comitia for 63 B.C.? Give reasons for your answer.

3. Translate into Latin :—

Their execution there was strictly just, and was a penalty which any military commander would be justified in exacting for a similar offence against the laws of honour. But although the justice of the general's sentence may be established, it may yet be asked whether there was any necessity for exacting the full penalty, and whether this was not a case for a display of generosity on the part of the conqueror. It may safely be answered that never was there a time when one or two severe examples were more urgently called for: and when, however much soever the general might wish to show mercy, he was never bound to perform what to him must have been a very painful duty.

LATIN.

Second Paper.

Examiner—Professor Sandford.

1. Translate, with brief notes :—

Tibur Argeo positum colono
Sit meae sedes utinam senectae,
Sit modus lasso maris et viarum
Militiaeque.
Unde si Parcae prohibent iniquae,
Dulce pellitis ovibus Galaesi
Flumen et regnata petam Laconi
Rura Phalantho.
Ille terrarum mihi praeter omnes
Angulus ridet, ubi non Hymetto
Mella decedunt viridique certat
Baca Venafro.

II.

Ut quo quisque valet suspectos terreat, utque
Imperet hoc natura potens, sic collige mecum.
Dente lupus, cornu taurus petit: unde, nisi intus
Monstratum? Scaevae vivacem crede nepoti
Matrem: nil faciet sceleris pia dextera (mirum,
Ut neque calce lupus quemquam neque dente petit bos);

Sed mala tollet anum vitiato melle cicuta.
Ne longum faciam: seu me tranquilla senectus
Exspectat seu mors atris circumvolat alis,
Dives, inops, Romae, seu fors ita iusserit exsul,
Quisquis erit vitae scribam color.' 'O puer, ut sis
Vitalis metuo, et maiorum nequis amicus
Frigore te feriat.' 'Quid, cumst Lucilius ausus
Primus in hunc operis conponere carmina morem,
Detrahere et pellem, nitidus qua quisque per ora
Cederet, introrsum turpis: num Laelius et qui
Duxit ab oppressa meritum Carthagine nomen
Ingenio offensi aut laeso doluere Metello
Famosisque Lupo cooperto versibus.'

III.

Matutine pater, seu Iane libentius audis,
Unde homines operum primos vitaeque labores
Instituunt (sic dis placitum), tu carminis esto
Principium. Romae sponsorem me rapis. 'Eia,
Ne prior officio quisquam respondeat, urgue.'
Sive Aquilo radit terras seu bruma nivalem
Interiore diem gyro trahit, ire necessest.
Postmodo, quod mi obsit, clare certumque locuto
Luctandum in turba et facienda iniuria tardis.
'Quid vis, insane, et quas res agis?' inprobus urguet
Iratis precibus: 'tu pulses omne quod obstat,
Ad Maecenatem memori si mente recurras.'
Hoc iuvat et mellist, non mentiar. At simul atras
Ventumst Esquilias, aliena negotia centum
Per caput et circa saliunt latus. 'Ante secundam
Roscius orabat sibi adesses ad Puteal cras.
De re communi scribae magna atque nova te
Orabant hodie meminisses, Quinte, reverti.

IV.

Sed tuus hic populus, sapiens et iustus in uno,
Te nostris ducibus, te Grais anteferendo,
Cetera nequaquam simili ratione modoque
Aestimat et, nisi quae terris semota suisque
Temporibus defuncta videt, fastidit et odit,
Sic fautor veterum, ut tabulas peccare vetantes
Quas bis quinque viri sanxerunt, foedera regum
Vel Gabiis vel cum rigidis aequata Sabinis,

Pontificum libros, annosa volumina vatum
Dictitet Albano Musas in monte locutas.
Si, quia Graiorum sunt antiquissima quaeque
Scripta vel optima, Romani pensantur eadem
Scriptores trutina; non est quod multa loquamur:
Nil intrast olea, nil extrast in nuce duri;
Venimus ad summum fortunae, pingimus atque
Psallimus et luctamur Achivis doctius unctis.
Si meliora dies, ut vina, poemata reddit,
Scire velim, chartis pretium quotus arroget annus.

2. (*a*) Scan the last stanza of passage 1, pointing out any peculiarities.

(*b*) What do you know of the 'motum ex Metello consule civicum,' and what does Horace say about it?

Translate, scan, and explain the allusions in:—

(*c*) Iuno et deorum quisquis amicior
Afris inulta cesserat impotens
Tellure, victorum nepotes
Rettulit inferias Iugurthae.

(*d*) Comment on—Relicta non bene parmula; quem Venus arbitrum dicet bibendi; desine querellarum; mero tinguet pavimentum superbo pontificum potiore cenis.

(*e*) In Car. II. there are two allusions to Cato. Quote them.

(*f*) What prominent trait of Maecenas' character is shown in the Ode 'Cur me querellis, &c.?

3. (*a*) Comment on—Sequor hunc Lucanus an Apulus anceps; ac venerata Ceres, ita culmo surgeret alto, explicuit vino contractae seria frontis; munus Apolline dignum vis complere libris.

(*b*) What does Horace say of Plautus and Terence? Of whom does he say 'Boeotum in crasso iuraris aere natum'?

(*c*) In the Epistle to Florus (Ep. II. 2), Horace uses the stories of a slave-dealer and of a soldier of Lucullus. Explain the applications.

(*d*) Explain:

Carmine tu gaudes, hic delectatur iambis
Ille Bioneis sermonibus et sale nigro.

(*e*) Translate, explaining the allusions :—

Discedo Alcaeus puncto illius. Ille meo quis ?
Quis nisi Callimachus ?

(*f*) How does Horace describe his position as regards—

Viribus, ingenio, specie, virtute, loco, re ?

4. (*a*) Give an account of the *second* slave war in Sicily. What was the end of M'. Aquillius who suppressed it ?

(*b*) 'The trials of M'. Aquillius and P. Rutilius Rufus proved the corruption of the equestrian juries.' Explain. What was the occasion of the origin of the *ordo equestor* ?

(*c*) 'Marius was the cause of the first Civil War, but Mithridates occasioned its outbreak.' Explain.

(*d*) What was the case of Sext. Roscius Amerinus ? What was the Lex Plautia-Papiria ?

(*e*) When and how was the legislation of Sulla in part overthrown ? What was the best portion of it ?

(*f*) What was the position of the Italians in reference to Roman politics in 128 and 90 B.C. respectively ?

(*g*) State what you know of the end of each of the following :—Metellus, Carbo, Sulpicius, and Cinna.

5. (*a*) Give examples of the different meanings of the following verbs in different constructions :—*convenire, consulere, cavere, persuadere, niti.*

(*b*) Write the principal parts of as many verbs as you can that are conjugated like *capio*, and like *lacesso*.

(*c*) What is the Latin for :—His body was capable of enduring hunger and cold beyond what anyone could believe possible. It is said that he was the first to enter the battle, but he began to be pressed hard by the enemy before any of his men ?

(*d*) Conjugate and give the meanings of—*veneo, comperio, tollo, edo, nanciscor.*

(*e*) Give the various meanings, marking quantities of the words :—*morere, mane, reges, manes, duces, pares, securis, miseris.*

GREEK.

Examiner—PROFESSOR D'ARCY THOMPSON.

1. Translate into English:—

I.

οἱ δὲ παρὰ σκοπιὴν καὶ ἐρινεὸν ἠνεμόεντα
τείχεος αἰὲν ὑπὲκ κατ' ἀμαξιτὸν ἐσσεύοντο,
κρουνὼ δ' ἵκανον καλλιρρόω, ἔνθα τε πηγαὶ
δοιαὶ ἀναΐσσουσι Σκαμάνδρου δινήεντος.
ἡ μὲν γάρ θ' ὕδατι λιαρῷ ῥέει, ἀμφὶ δὲ καπνὸς
γίγνεται ἐξ αὐτῆς ὡς εἰ πυρὸς αἰθομένοιο·
ἡ δ' ἑτέρη θέρεϊ προρέει εἴκυῖα χαλάζῃ
ἢ χιόνι ψυχρῇ ἢ ἐξ ὕδατος κρυστάλλῳ.
ἔνθα δ' ἐπ' αὐτάων πλυνοὶ εὐρέες ἐγγὺς ἔασιν
καλοὶ λαΐνεοι, ὅθι εἵματα σιγαλόεντα
πλύνεσκον Τρώων ἄλοχοι καλαί τε θύγατρες
τὸ πρὶν ἐπ' εἰρήνης, πρὶν ἐλθεῖν υἷας Ἀχαιῶν.
τῇ ῥα παραδραμέτην, φεύγων, ὁ δ' ὄπισθε διώκων·
πρόσθε μὲν ἐσθλὸς ἔφευγε, δίωκε δέ μιν μέγ' ἀμείνων
καρπαλίμως, ἐπεὶ οὐχ ἱερήϊον οὐδὲ βοείην
ἀρνύσθην, ἅ τε ποσσὶν ἀέθλια γίγνεται ἀνδρῶν,
ἀλλὰ περὶ ψυχῆς θέον Ἕκτορος ἱπποδάμοιο.

HOMER, *Iliad*, XXII. 145–161.

II.

τοῦ δ' ὑπερωϊόθεν φρεσὶ σύνθετο θέσπιν ἀοιδὴν
κούρη Ἰκαρίοιο, περίφρων Πηνελόπεια·
κλίμακα δ' ὑψηλὴν κατεβήσατο οἷο δόμοιο,
οὐκ οἴη, ἅμα τῇγε καὶ ἀμφίπολοι δύ' ἕποντο.
ἡ δ' ὅτε δὴ μνηστῆρας ἀφίκετο δῖα γυναικῶν,
στῆ ῥα παρὰ σταθμὸν τέγεος πύκα ποιητοῖο,
ἄντα παρειάων σχομένη λιπαρὰ κρήδεμνα·
ἀμφίπολος δ' ἄρα οἱ κεδνὴ ἑκάτερθε παρέστη.
δακρύσασα δ' ἔπειτα προσηύδα θεῖον ἀοιδόν·
Φήμιε, πολλὰ γὰρ ἄλλα βροτῶν θελκτήρια οἶδας,
ἔργ' ἀνδρῶν τε θεῶν τε, τά τε κλείουσιν ἀοιδοί·
τῶν ἕν γέ σφιν ἄειδε παρήμενος, οἱ δὲ σιωπῇ

οἶνον πινόντων· ταύτης δ' ἀποπαύε' ἀοιδῆς
λυγρῆς, ἤτε μοι αἰεὶ ἐνὶ στήθεσσι φίλον κῆρ
τείρει· ἐπεί με μάλιστα καθίκετο πένθος ἄλαστον.
τοίην γὰρ κεφαλὴν ποθέω, μεμνημένη αἰεὶ
ἀνδρός, τοῦ κλέος εὐρὺ καθ' Ἑλλάδα καὶ μέσον Ἄργος.
HOMER, *Odyssey*, ιι 327–344.

III.

βούλομαι τοίνυν ἐπανελθεῖν ἐφ' ἃ τούτων ἐξῆς ἐπολιτευόμην· καὶ σκοπεῖτε ἐν τούτοις πάλιν αὖ, τί τὸ τῇ πόλει βέλτιστον ἦν. ὁρῶν γὰρ, ὦ ἄνδρες Ἀθηναῖοι, τὸ ναυτικὸν ὑμῶν καταλυόμενον, καὶ τοὺς μὲν πλουσίους ἀτελεῖς ἀπὸ μικρῶν ἀναλωμάτων γιγνομένους, τοὺς δὲ μέτρια ἢ μικρὰ κεκτημένους τῶν πολιτῶν τὰ ὄντα ἀπολλύντας, ἔτι δ' ὑστερίζουσαν ἐκ τούτων τὴν πόλιν τῶν καιρῶν, ἔθηκα νόμον καθ' ὃν τοὺς μὲν τὰ δίκαια ποιεῖν ἠνάγκασα, τοὺς πλουσίους, τοὺς δὲ πένητας ἔπαυσ' ἀδικουμένους, τῇ πόλει δ' ὅπερ ἦν χρησιμώτατον, ἐν καιρῷ γίγνεσθαι τὰς παρασκευὰς ἐποίησα. καὶ γραφεὶς τὸν ἀγῶνα τοῦτον εἰς ὑμᾶς εἰσῆλθον καὶ ἀπέφυγον, καὶ τὸ μέρος τῶν ψήφων ὁ διώκων οὐκ ἔλαβεν. καιτοι πόσα χρήματα τοὺς ἡγεμόνας τῶν συμμοριῶν ἢ τοὺς δευτέρους καὶ τρίτους οἴεσθέ μοι διδόναι ὥστε μάλιστα μὲν μὴ θεῖναι τὸν νόμον τοῦτον, εἰ δὲ μὴ, καταβαλόντα ἐᾶν ἐν ὑπωμοσίᾳ; τοσαῦτ', ὦ ἄνδρες Ἀθηναῖοι, ὅσα ὀκνήσαιμ' ἂν πρὸς ὑμᾶς εἰπεῖν.—DEMOSTHENES, *De Corona*.

IV.

πολλαχῇ δ' ἄν τις λογιζόμενος εὕροι ταύτας τὰς πράξεις μάλιστα λυσιτελούσας ἡμῖν. φέρε γὰρ, πρὸς τίνας χρὴ πολεμεῖν τοὺς μηδεμιᾶς πλεονεξίας ἐπιθυμοῦντας ἀλλ' αὐτὸ τὸ δίκαιον σκοποῦντας; οὐ πρὸς τοὺς καὶ πρότερον κακῶς τὴν Ἑλλάδα ποιήσαντας καὶ νῦν ἐπιβουλεύοντας καὶ πάντα τὸν χρόνον οὕτω πρὸς ἡμᾶς διακειμένους; τίσι δὲ φθονεῖν εἰκός ἐστι τοὺς μὴ παντάπασιν ἀνάνδρως διακειμένους ἀλλὰ μετρίως τούτῳ τῷ πράγματι χρωμένους; οὐ τοῖς μείζους μὲν τὰς δυναστείας ἢ κατ' ἀνθρώπους περιβεβλημένοις, ἐλάττονος δ' ἀξίοις τῶν παρ' ἡμῖν δυστυχούντων; ἐπὶ τίνας δὲ στρατεύειν προσήκει τοὺς ἅμα μὲν εὐσεβεῖν βουλομένους, ἅμα δὲ τοῦ συμφέροντος ἐνθυμουμένους; οὐκ ἐπὶ τοὺς καὶ φύσει πολεμίους καὶ πατρικοὺς

ἐχθροὺς, καὶ πλεῖστα μὲν ἀγαθὰ κεκτημένους, ἥκιστα δ' ὑπὲρ αὐτῶν ἀμύνεσθαι δυναμένους; οὐκοῦν ἐκεῖνοι πᾶσι τούτοις ἔνοχοι τυγχάνουσιν ὄντες.—ISOCRATES, *Panegyricus*, 183, 184.

V.

Unprescribed Passage.

ὦ ἄνδρες Λακεδαιμόνιοι, τὴν μὲν προξενίαν ὑμῶν οὐκ ἐγὼ μόνος, ἀλλὰ καὶ πατρὸς πατὴρ πατρῴαν ἔχων παρεδίδου τῷ γένει, βούλομαι δὲ καὶ τοῦτο ὑμῖν δηλῶσαι, ὡς ἔχουσα ἡ πόλις διατελεῖ πρὸς ἡμᾶς. ἐκείνη γάρ, ὅταν μὲν πόλεμος ᾖ, στρατηγοὺς ἡμᾶς αἱρεῖται, ὅταν δὲ ἡσυχίας ἐπιθυμήσῃ, εἰρηνοποιοὺς ἡμᾶς ἐκπέμπει. κἀγὼ πρόσθεν δὶς ἤδη ἦλθον περὶ πολέμου καταλύσεως, καὶ ἐν ἀμφοτέραις ταῖς πρεσβείαις διεπραξάμην καὶ ὑμῖν καὶ ἡμῖν εἰρήνην· νῦν δὲ τρίτον ἥκω, καὶ ἡγοῦμαι πολὺ δικαιότατα νῦν ἂν διαλλαγῆς τυχεῖν. ὁρῶ γὰρ οὐκ ἄλλα μὲν ὑμῖν, ἄλλα δὲ ἡμῖν δοκοῦντα, ἀλλ' ὑμᾶς τε ἀχθομένους καὶ ἡμᾶς τῇ Πλαταιῶν τε καὶ Θεσπιῶν ἀναιρέσει. πῶς οὖν οὐκ εἰκὸς τὰ αὐτὰ γιγνώσκοντας φίλους μᾶλλον ἀλλήλοις ἢ πολεμίους εἶναι; καὶ σωφρόνων μὲν δήπου ἐστὶ μηδὲ εἰ μικρὰ τὰ διαφέροντα εἴη πόλεμον ἀναιρεῖσθαι· εἰ δὲ δὴ καὶ ὁμογνωμονοῖμεν, οὐκ ἂν πάνυ τῶν θαυμαστῶν εἴη μὴ εἰρήνην ποιεῖσθαι;—XENOPHON, *Hellenics*, III. 4, 5.

GREEK.

Examiner—PROFESSOR D'ARCY THOMPSON.

HISTORY, 560–322 B.C.

1. Particularise the events that are suggested by the several dates:—

560, 490, 475, 444, 431, 404.

2. What battles marked, respectively, the beginning and the end of the Theban supremacy in Hellas?

3. What leading events preceded by a year or two the assassination of King Philip of Macedon?

GRAMMAR.

4. For what tenses only has the passive voice a distinct form?

5. Distinguish between Primitive and Denominative verbs, adducing examples.

6. Give the first person singular of the imperfect active of οἰκτείρω, ἱκετεύω, ὑβρίζω, ῥίπτω, εἰκάζω, αἰσθάνομαι, ὁράω, ἔχω, ἀνοίγω.

7. Distinguish between the forms παύσαι, παῦσαι, παῦσαι: δηλώσαι, δηλῶσαι, δήλωσαι.

8. Give primitive forms for φυλάσσω, ταράσσω, τάσσω, φράζω, κράζω, σαλπίζω.

9. Distinguish between λιθόβολος and λιθοβόλος: μητρόκτονος and μητροκτόνος.

10. In what respects does the word συλλογισμός differ from an ordinary compound noun?

COMPOSITION.

11. Render into Greek prose the following:—

To the last Phocion maintained his calm, dignified, but somewhat contemptuous bearing. To one who asked whether he had any message for his son, he replied: 'Only that he bear no grudge against the Athenians.' And, when the hemlock which had been prepared was found insufficient for all the condemned, and the jailer would not furnish more unless he were paid for it, 'Give the man his money,' said he, 'since at Athens one cannot even die for nothing.'

FRENCH.

Examiner—PROFESSOR STEINBERGER.

COMPOSITION.

1. Translate into French:—

Our life might be gay and happy if we would; but we eagerly seek subjects of affliction to render it melancholy. We pass the first years of this life in the shades of ignorance, the succeeding ones in pain and labour, the latter part in grief and remorse, and the whole in error; nor do we suffer ourselves to possess one bright day without a cloud.

Let us examine this matter with sincerity, and we shall agree that our distresses chiefly arise from ourselves. It is virtue alone which can render us superior to Fortune; we quit her standard, and the combat is no longer equal. Fortune mocks us; she turns us on her wheel: she raises and abases us at her pleasure, but her power is founded on

our weakness. This is an old-rooted evil, but it is not incurable: there is nothing a firm and elevated mind cannot accomplish. The discourse of the wise and the study of good books are the best remedies I know of; but to these we must join the consent of the soul, without which the best advice will be useless.—PETRARCH.

GRAMMAR.

2. Give one instance of each of the four different ways of forming the feminine of adjectives ending in *-eur*, stating the rule in every case.

3. State the difference of meaning between—*ce vaurien vient voler, ce vaurien vient de voler, ce vaurien vint à voler, ce vaurien en vint à voler;* and between *voyez-vous ? y voyez-vous ? en voyez-vous ?*

4. Conjugate in the imperative, and write the third person singular of the subjunctive present and pluperfect of *y songer, s'en aller, ne pas lui en prêter.*

Unprescribed Passage.

5. Translate into English:—

LE LEVER DU SOLEIL.

On le voit s'annoncer de loin par les traits de feu qu'il lance au-devant de lui. L'incendie augmente, l'orient parait tout en flammes: à leur éclat on attend l'astre longtemps avant qu'il se montre; à chaque instant on croit le voir paraître: on le voit enfin. Un point brillant part comme un éclair, et remplit aussitôt tout l'espace; le voile des ténèbres s'efface et tombe; l'homme reconnaît son séjour, et le trouve embelli. La verdure a pris, durant la nuit, une vigueur nouvelle; le jour naissant qui l'éclaire, les premiers rayons qui la dorent la montrent couverte d'un brillant réseau de rosée, qui réfléchit à l'œil la lumière et les coleurs. Les oiseaux en chœur se réunissent et saluent de concert le père de la vie: en ce moment pas un seul ne se tait. Leur gazouillement, faible encore, est plus lent et plus doux que dans le reste de la journée; il se sent de la langueur d'un paisible réveil. —JEAN JACQUES ROUSSEAU.

6. Oral examination.

GERMAN.

Examiner—PROFESSOR STEINBERGER, M.A.

COMPOSITION.

1. Translate into German :—

Frederic's education had been entirely French. The long ascendancy which Louis XIV. had enjoyed, and the eminent merit of the tragic and comic dramatists, of the satirists, and of the preachers who had flourished under that magnificent prince, had made the French language predominant in Europe. Germany had not yet produced a single masterpiece of poetry or eloquence. In Germany, therefore, the French taste reigned without rival and without limit. Every youth of rank was taught to speak and write French. That he should speak and write his own tongue with politeness, or even with accuracy and facility, was regarded as comparatively an unimportant object. Even Frederic William, with all his rugged Saxon prejudices, thought it necessary that his children should know French, and quite unnecessary that they should be well versed in German. The Latin was positively interdicted. 'My son,' his Majesty wrote, 'shall not learn Latin; and, more than that, I will not suffer anybody even to mention such a thing to me.'—MACAULAY, *Frederic the Great.*

GRAMMAR.

2. Explain what is meant by factitive or causative verbs. Comment on the mode of their formation, and derive factitive verbs from liegen, fließen, verſchwinden, ſchwimmen. Give the meanings of the verbs thus derived.

3. Derive adjectives from the following nouns, and give the meaning of each adjective thus derived :—Holz, Gold, Erde, Freude, Herz, Stadt.

4. Form short German sentences to show the construction of : abhängig, überzeugt, ſtolz, zufrieden.

5. Translate into English :—

Unprescribed Passages.

(*a*) Ich Unglücklicher, klagte ein Geizhalz ſeinem Nachbar. Man hat mir den Schatz, den ich in meinem Garten vergraben hatte, dieſe Nacht entwendet, und einen Stein an deſſen Stelle gelegt. Du

würdeſt, antwortete ihm der Nachbar, deinen Schatz doch nicht benutzt haben. Bilde dir alſo ein, der Stein ſei ein Schatz, und du biſt nichts ärmer. Wäre ich auch ſchon nichts ärmer, erwiderte der Geizhals, iſt ein anderer nicht um ſo viel reicher? Ich möchte raſend werden. — Leſſing's Fabeln.

(*b*) Ich habe die erhabene Abſicht, die Welt mit meinen Fabeln zu beluſtigen, leider nicht gehabt. Ich hatte mein Augenmerk nur immer auf dieſe oder jene Sittenlehre gerichtet, die ich, meiſtens zu meiner eigenen Erbauung, in beſonderen Fällen anwenden wollte; und zu dieſem Zwecke glaubte ich meine Erdichtungen nicht kurz und trocken genug darlegen zu können. — Leſſing's Abhandlungen.

6. Oral examination.

ENGLISH.

Examiner—The President.

1. Develop the idea, 'Great men are happy as it were by report.'

Quote the judgments passed by Tacitus on Galba and Vespasian, respectively.

Who are the '*Mountebanques* for the Politique Body'?

2. Quote any reference of Bacon to *Macciavel.*

What are the 'foure pillars of Government'?

Quote some of the 'witty and sharp speeches which have given fire to seditions.'

What is the 'Soloecisme of Power'?

Give the answer of Apollonius to Vespasian.

3. Explain the proverb 'mi venga la muerte de Spagna.'

In what context does Bacon say, 'Ashes are more generative than Dust'?

What was the speech of *Themistocles* the *Athenian*?

Give some 'Examples of the great oddes between Number and Courage.'

4. Give Bacon's remarks upon the statement that 'AJust and Honourable Course is the true *Exercise*' of the Politique Body.

Give the context of ***Serpens nisi serpentem comederit non fit Draco.***

Develop the thought: 'The Way of *Fortune* is like the *Milken Way* in the skie.'

5. Contrast the characters of Macbeth and Lady Macbeth, illustrating your remarks from the play.

Show how far, and for what reasons, Shakespeare departed from his authorities in the play of *Macbeth*.

6. Explain the following lines, and give their context:—

(*a*) And here the hunters stand
Sign'd in thy spoil, and crimson'd in thy lethe.

(*b*) To beguile the time
Look like the time.

(*c*) If the assassination
Could trammel up the consequence, and catch
With his surcease—success.

(*d*) The fatal bellman which gives the stern'st good night.

(*e*) A falcon, towring in her pride of place,
Was by a mousing owl hawk'd at and kill'd.

(*f*) But in them Nature's copy 's not eterne.

(*g*) When we hold terrour
From what we fear; yet know not what we fear;
But float upon a wild and violent sea,
Each way and move.

7. Explain and develop the statement:—

'Brutus is the political Girondin, Cassius the political Jacobin.'

In what sense, according to Prof. Dowden, is Julius Cæsar the protagonist of the tragedy that bears his name?

8. (*a*) Quote the passage beginning—

'See the same man in vigour, in the gout.'

(*b*) Give the substance of the passage commencing—

'Not always actions show the man.'

(*c*) Give the substance of the story of Sir Balaam.

9. Write short accounts of ***Anaverdy Khan, Morari Row, Surajah Dowlah, Meer Jaffier, Nuncomar.***

10. Describe the internal government of Bengal before the time of Warren Hastings, and the changes introduced by him in its administration.

11. (*a*) What was the ***Regulating Act***?

(*b*) Narrate, briefly, the events subsequent to the arrival of Francis in Bengal.

IRISH.

Examiner—JOHN MCNEILL, B.A.

1. Translate into English :—

I.

Is maith fós do chuig an t-árd-ṡlaiṫ uaral oifeagḋa, do bí 'n-a áird-ríg ar an domhan, d'ar b' ainm Saladín, an níḋ céadna: is eaḋ iomorro do rinne an rí rochumhachtach, an tan do mhothuig é féin fé huchd an báir, fior do chur ar chaoiseach d'a shuinnsir, ag a rádh rir, an tan dogéabadh féin bár, an eirléine do cuirfiḋe air do chur ar chrann sleige, ag a tairbéanadh do na sluagaiḃ lá na rochraide, 7 callairiḋe do beiṫ 'n-a fhochair ag agallaimh na sluag, ag a rádh: 'an gcluinti, a mhaiṫe na sluag? Díoḃ a fhior agaib go bfuair an t-árd-ṡlaiṫ orḋairc, 7 an tí do chuireaḋ an domhan ar bailli-chriṫ, 7 do bí gan mhéiḋ ná mac-samhla ḋó ar an dtalmhain ar lionmhaireacht a ṡlaiṫiura, ar iomad a óir 7 a airgiḋ 7 a iol-mhaoine, ar mhéiḋ a shuirir 7 a shuinnsire .i. Saladín, bár; 7 anoir sé n-imṫeacht ḋó, ní 'l sé do breiṫ leis do 'n craoghal acht an eirléine dochídi-se agam-sa.'—KEATING, *Tri Bior-ghaoithe an Bháis.*

II.

Iar mbeiṫ do ṡliocht Śimeoin Ḃric mic Seairn mic Neimiḋ ran nGréig, amhail adubramar, ro ṡádadar gur bo lionmhar an lucht do bí ann díoḃ. Giḋeaḋ, do chuireaḋ Gréagaig daoisse agus dochraide mór orra,

eaδóη, a mbeiċ aᵹ coċaiłc na calmhan, aᵹ cóᵹbáił úipe, aᵹur aᵹ a hiomċup i mbolᵹaiδ nó i racaiδ leaċair, pe a ᵹcur ap ċpeaᵹaiδ cloċ, ᵹo beiċ 'n-a húip iontorċaiᵹ δi. Ꝺaδ acuirpe mór aᵹur miorᵹair pe Ꝺréaᵹaiδ iad cpér an mbroid i radadar aca, aᵹur leir rin do comhairliᵹeaδ aca an doċraide rin d' ṕáᵹbáil. Ꝺadaid cúiᵹ míle le ċéile díoδ, iar ᵹcinneaδ ar an ᵹcomhairle rin dóiδ, aᵹur do ᵹnío báirca do na bolᵹaiδ, nó do na ciaċaiδ leaċair i mbíoir aᵹ carrainᵹ na húipe, ᵹo dtáinᵹadar for a n-air ᵹo hÉirinn an rhioċt ro Simeoin Ꝺric mic Stairn i ᵹcionn reaċt mbliadan ndéaᵹ ar dá ċéad d' éir Neimhid do ᵹabáil Éireann.—Keating, *History of Ireland.*

III.

'An caṫ ar do ċoimirce, a Ꝺáire mic Fiaċraiᵹ,' ar Conċuδar. 'Ir roṫ fri learᵹa roin,' ar Ꝺáire, 'aᵹur ní ṫaomhaim-re é.' 'An caṫ ar do ċoimirce, a Θoᵹain,' ar Conċuδar. 'Ir urċar ó ċéid ó láimh anora,' ar Θoᵹan, 'aᵹur ní ṫaomhaim-re é.' 'An caṫ ar δur ᵹcoimirce, a aor dána Ulaδ,' ar Conċuδar. 'Ir áilleacán i láimh leimδ rin anora,' ar Aimhirᵹin aᵹar ar Caṫraṫ, 'aᵹur ní ṫaomham-ne é.' 'An caṫ ar do ċoimirce, a lriail,' ar Conċoδar. 'Ir dlaoi fri dianᵹaoiṫ rin anora,' ar lrial, 'aᵹur ní ṫaomhaim-re é.' 'An caṫ ar do ċoimirce, a Laoᵹaire Ꝺuaδaiᵹ,' ar Conċoδar. 'Ir eararᵹain daraṫ do ḋoirnib rin anoir,' ar Laoᵹaire, 'aᵹur ní ṫaomhaim-re é.'—*Cath Rois na Riogh* (later version).

4. Translate into Irish:—

Knowledge is mental food, and is exactly to the spirit what food is to the body (except that the spirit needs several sorts of food, of which knowledge is only one), and it is liable to the same kind of misuses. It may be mixed and disguised by art, till it becomes unwholesome; it may be refined, sweetened, and made palatable, until it has lost all its power of nourishment; and, even of its best kind, it may be eaten to surfeiting, and minister to disease and death.

Idioms.

5. Give idiomatic Irish for :—

(*a*) I will make him sing another tune.
(*b*) They laid on me with their fists.
(*c*) Let us take shelter.
(*d*) What has happened to you ?
(*e*) People meet, if hills don't.

6. Give the English of :—

(*a*) Ḋiṫniġṫeaṗ an cṗann aṗ a ṫoṗaḋ.
(*b*) Ṫá ṗé aġ bṗaṫ aṗ mo ḃualaḋ.
(*c*) Ḋá mḃṗiṗeaḋ an buanna aṗ an ṫiġeaṗna ṗá ġan anṁain aiġe an aṫ-ṗáiṫe.
(*d*) Ní ġoilleann oṗm a ḃṗuaṗaṗ ḃe ṫṗioḃlóiḃ.
(*e*) Ṫéiḃ ġaṫ ġlóiṗ ṗaoġalṫa aṗ ceal uainn i n-aimṗiṗ an éaġa.

Grammar.

7. Distinguish between the meanings of—(*a*) leaḃaṗ liom ; (*b*) mo leaḃaṗ ; (*c*) mo leaḃaṗ ṗéin, and (*d*) mo leaḃaṗ-ṗa.

8. Give the third person singular of the present, preterite, and future indicative mood, of the following verbs—(*a*) beiṗ ; (*b*) ṫaḃaiṗ ; (*c*) ṗeic ; (*d*) ṫéiḃ ; (*e*) ṗaġ :—

(A) when used independently ;
(B) when preceded by ní.

9. Give the passive forms, in the same tenses, of the verbs named in the foregoing question —

(A) when used independently ;
(B) when preceded by ní.

10. In Irish, verbs which are not transitive are frequently used in the passive voice. Give examples showing the following verbs in this usage :—(*a*) bí ; (*b*) ṫaṗ ; (*c*) ṗéaḃaim ; (*d*) caiṫṗiḃ, in the sense of 'must.'

SCIENCE SCHOLARSHIP OF THE FIRST YEAR.

ARITHMETIC AND ALGEBRA.

(Arts, Medicine, and Engineering.)

Examiner—PROFESSOR A. C. DIXON.

1. Find the value of $\cdot\dot{7}24\dot{9}$ in the scale of twelve.

2. The present worth of £119 15*s.* 3*d.* due three months hence is £119 3*s.* 4*d.*: what is the rate per cent. per annum?

3. A man sells £6100 India 3 per Cent. Stock at 101$\frac{1}{8}$, and with the proceeds buys G. S. and W. 4 per Cent. Preference Stock at 137$\frac{1}{2}$. Find the change in his income, allowing $\frac{1}{4}$ brokerage.

4. Prove that when $n + 1$ figures out of $2n + 1$ in the square root of a square integer have been found by the ordinary process, the rest may be found by mere division.

Find the 4th root of 2 correct to 4 places of decimals.

5. Solve the equations

$$8x + 3y + 2z = 48,$$
$$7x + 4y - z = 42,$$
$$x^2 + y^2 + z^2 = 36.$$

6. Find two progressions, one arithmetical and one harmonical, such that the first and seventh terms shall be the same in both, and the third term in the one shall be equal to the fifth in the other.

7. Given $\alpha + \beta = a$, $\alpha\beta = b$, find $\alpha^6 + \beta^6$.

8. Show that, in an expansion by the binomial theorem, the ratio of the $r + 1^{th}$ term to the r^{th} continually decreases as r increases, and prove that if m, n are positive integers, of which n is the greater, then

$$\left(1 + \frac{1}{n}\right)^m < \frac{n}{n - m}.$$

9. There are nr things of n kinds, r of each kind. Show that the number of permutations of them s together is the coefficient of x^s in

$$s! \times \left(1 + x + \frac{x^2}{2!} + \ldots + \frac{x^r}{r!}\right)^n.$$

10. Show that the excess of

$$4 \log_{10} 7 \text{ over } 2 + \log_{10} 3 + 3 \log_{10} 2$$

is positive, but less than $\frac{1}{1000} \log_{10} 2$.

Given $\log_{10} 2 = \cdot 3010300$, and $\log_{10} 3 = \cdot 4771213$, find the value of $\log_{10} 7$ correct to four places.

[*The result of question* 8 *may be used.*]

GEOMETRY AND TRIGONOMETRY.

(Arts, Medicine, and Engineering.)

Examiner—Professor A. C. Dixon.

1. Prove that the least triangle circumscribing a given circle is equilateral.

2. Given two points A, B, show how to find, with compasses only, a point C on the line AB produced, such that $BC = AB$.

3. O is a given point on a given chord AB of a given circle. Show how to draw through O two other chords PQ, RS so that the arcs AP, RB, QS, all measured the same way round, may be equal.

4. Given the nine-point circle of a triangle and its angles, construct it.

5. A curvilinear triangle is contained by arcs of three circles, no part of which lies within the triangle. Prove that the sum of its three angles is less or greater than two right angles according as a real circle can or cannot be drawn to cut the three circles orthogonally.

6. Find to three places of decimals the sine and cosine of 48°.

7. Prove that

$$\frac{\sin^3 \alpha}{\sin(\alpha-\beta)\sin(\alpha-\gamma)} + \frac{\sin^3 \beta}{\sin(\beta-\gamma)\sin(\beta-\alpha)} + \frac{\sin^3 \gamma}{\sin(\gamma-\alpha)\sin(\gamma-\beta)} = \sin(\alpha+\beta+\gamma).$$

8. The distances of the vertices of an acute-angled triangle from its orthocentre are 12, 9, 2. Prove that the radius of the circumcircle is 8, and find the sides.

9. The medians of a triangle ABC meet the circumcircle again in A', B', C'. Find the area of the triangle $A'B'C'$.

10. If γ, δ are distinct angles such that

$$\sin(\beta+\gamma) + \sin(\gamma+\alpha) + \sin(\alpha+\beta) = 0,$$

and

$$\sin(\beta+\delta) + \sin(\delta+\alpha) + \sin(\alpha+\beta) = 0,$$

prove that, unless α, β have special values,

$$\sin(\gamma+\delta) + \sin(\delta+\alpha) + \sin(\alpha+\gamma) = 0,$$

and that $\alpha+\beta+\gamma+\delta$ is an odd multiple of π.

LITERARY SCHOLARSHIP OF THE SECOND YEAR.

LATIN.

FIRST PAPER.

Examiner—PROFESSOR SANDFORD.

1. Translate, with brief notes:—

I.

Me fabulosae Volture in Apulo
Altricis extra limen Apuliae
  Ludo fatigatumque somno
    Fronde nova puerum palumbes
Texere, mirum quod foret omnibus,
Quicumque celsae nidum Acherontiae
  Saltusque Bantinos et arvum
    Pingue tenent humilis Forenti,
Ut tuto ab atris corpore viperis
Dormirem et ursis, ut premerer sacra
  Lauroque conlataque myrto,
    Non sine dis animosus infans.

HOR.

II.

Eradenda cupidinis
  Pravi sunt elementa et tenerae nimis
Mentes asperioribus
  Formandae studiis. Nescit equo rudis
Haerere ingenuus puer
  Venarique timet, ludere doctior,
Seu Graeco iubeas trocho,
  Seu malis vetita legibus alea,
Cum periura patris fides
  Consortem socium fallat et hospitem,
Indignoque pecuniam
  Heredi properet. Scilicet improbae
Crescunt divitiae; tamen
  Curtae nescio quid semper abest rei. *Ib.*

III.

Vicini oderunt, noti, pueri atque puellae.
Miraris, cum tu argento post omnia ponas,
Si nemo praestet, quem non merearis, amorem ?
An si cognatos, nullo natura labore
Quos tibi dat, retinere velis servareque amicos,
Infelix operam perdas : ut siquis asellum
In campo doceat parentem currere frenis.
Denique sit finis quaerendi, cumque habeas plus,
Pauperiem metuas minus et finire laborem
Incipias, parto quod avebas, ne facias quod
Ummidius quidam ; non longast fabula : dives,
Ut metiretur nummos, ita sordidus, ut se
Non umquam servo melius vestiret, ad usque
Supremum tempus, ne se penuria victus
Opprimeret, metuebat. At hunc liberta securi
Divisit medium, fortissima Tyndaridarum.

Id.

IV.

Demitto auriculas, ut iniquae mentis asellus,
Cum gravius dorso subiit onus. Incipit ille :
'Si bene me novi, non Viscum pluris amicum,
Non Varium facies : nam quis me scribere plures
Aut citius possit versus ? quis membra movere
Mollius ? invideat quod et Hermogenes, ego canto.'
Interpellandi locus hic erat : 'est tibi mater,
Cognati, quis te salvost opus ?' 'Haud mihi quisquam.
Omnes conposui.' 'Felices ! Nunc ego resto.
Confice : namque instat fatum mihi triste, Sabella
Quod puero cecinit divina mota anus urna :
Hunc neque dira venena nec hosticus auferet ensis
Nec laterum dolor aut tussis nec tarda podagra ;
Garrulus hunc quando consumet cumque : loquaces,
Si sapiat, vitet, simul atque adoleverit aetas.'
Ventum erat ad Vestae, quarta iam parte diei
Praeterita, et casu tunc respondere vadato
Debebat ; quod ni fecisset, perdere litem.
'Si me amas,' inquit 'paullum hic ades.' 'Inteream, si
Aut valeo stare aut novi civilia iura.' *Ib.*

v.

Romani omnia acta eius, ex quo tempore ab Syria classem solvisset, displicere senatui non dissimulabant, restituique et Ptolemaeo omnes civitates quae ditionis eius fuissent aequum censebant: nam quod ad eas civitates attineret quas a Philippo possessas Antiochus per occasionem, averso Philippo in Romanum bellum, intercepisset, id vero ferendum non esse, Romanos per tot annos terra marique tanta pericula ac labores exhausisse, Antiochum belli praemia habere. Sed ut in Asiam adventus eius dissimulari ab Romanis tamquam nihil ad eos pertinens potuerit, quid quod iam etiam in Europam omnibus navalibus terrestribusque copiis transierit, quantum a bello aperte Romanis indicto abesse? illum quidem etiam si in Italiam traiiciat negaturum: Romanos autem non exspectaturos, ut id posset facere.

Adversus ea Antiochus mirari se dixit Romanos tam diligenter inquirere, quid regi Antiocho faciendum, at quousque terra marique progrediendum fuerit ipsis, non cogitare. Asiam nihil ad populum Romanum pertinere, nec magis illis inquirendum esse, quid Antiochus in Asia, quam Antiocho, quid in Italia populus Romanus faciat. Quod ad Ptolemaeum attineat, cui ademptas civitates querantur, sibi cum Ptolemaeo et amicitiam esse, et id agere, ut brevi etiam adfinitas iungatur.—Livy.

2. (*a*) Martiis caelebs quid agam Kalendis. Scan and explain fully.

(*b*) Fies nobilium tu quoque fontium. Scan and explain.

(*c*) Who is termed by Horace, *splendide mendax*?

(*d*) Da Lunae propere novae. Translate, and quote another instance of the construction.

(*e*) What is the meaning of *immunis*?

(*f*) Translate and annotate.

Pollio regum
Facta canit pede ter percusso; forte epos acer,
Ut nemo, Varius ducit; molle atque facetum
Vergilio annuerunt gaudentes rure Camenae.

(*g*) Hoc ego commodius quam tu, praeclare senator, Millibus atque aliis vivo. What is *hoc*? In expanding the statement Horace gives a picture of his everyday life?

3. Latin prose composition.

LATIN.

Second Paper.

Examiner—Professor Sandford.

1. Translate, with short notes:—

I.

Haec homo ingeniosissimus, M. Cato, auctoribus eruditissimis inductus adripuit, neque disputandi causa, ut magna pars, sed ita vivendi. Petunt aliquid publicani: cave quidquam habeat momenti gratia. Supplices aliqui veniunt miseri et calamitosi: sceleratus et nefarius fueris, si quidquam misericordia adductus feceris. Fatetur aliquis se peccasse et eius delicti veniam petit: nefarium est facinus ignoscere. At leve delictum est: omnia peccata sunt paria. Dixisti quippiam: fixum et statutum est. Non re ductus es, sed opinione: sapiens nihil opinatur. Errasti aliqua in re: male dici putat. Hac ex disciplina nobis illa sunt. Dixi in senatu me nomen consularis candidati delaturum. Iratus dixisti. Numquam, inquit, sapiens irascitur. At temporis causa. Improbi, inquit, hominis est mendacio fallere: mutare sententiam turpe est: exorari scelus, misereri flagitium.—Cicero, *Pro Murena*, xxx. 2.

II.

Quare ego te semper in nostrum numerum adgregare soleo, quod virtute industriaque perfecisti, ut, quum equitis Romani esses filius, summa tamen amplitudine dignus putarere, nec mihi umquam minus in Q. Pompeio, novo homine et fortissimo viro, virtutis esse visum est quam in homine nobilissimo M. Aemilio. Etenim eiusdem animi atque ingenii est posteris suis, quod Pompeius fecit, amplitudinem nominis, quam non acceperit, tradere, et, ut Scaurus, memoriam prope intermortuam generis sui virtute renovare.

Quamquam ego iam putabam, iudices, multis viris fortibus ne ignobilitas obiiceretur generis, meo labore esse perfectum, qui non modo Curiis, Catonibus, Pompeiis, antiquis illis, fortissimis viris, novis hominibus, sed his recentibus, Mariis et Didiis et Caeliis, commemorandis iacebant.—*Ib.* vii. 16.

III.

Umida solstitia atque hiemes orate serenas,
Agricolae: hiberno laetissima pulvere farra,
Laetus ager; nullo tantum se Mysia cultu
Iactat et ipsa suas mirentur Gargara messes.
Quid dicam, iacto qui semine comminus arva
Insequitur cumulosque ruit male pinguis harenae,
Deinde satis fluvium inducit rivosque sequentis
Et, cum exustus ager morientibus aestuat herbis,
Ecce supercilio clivosi tramitis undam
Elicit? illa cadens raucum per levia murmur
Saxa ciet, scatebrisque arentia temperat arva.
Quid qui, ne gravidis procumbat culmus aristis,
Luxuriem segetum tenera depascit in herba,
Cum primum sulcos aequant sata, quique paludis
Conlectum umorem bibula deducit harena?
Praesertim incertis si mensibus amnis abundans
Exit et obducto late tenet omnia limo,
Unde cavae tepido sudant umore lacunae.

VERG. *Georg.* i. 100–117.

IV.

Atque equidem, extremo ni iam sub fine laborum
Vela traham et terris festinem advertere proram,
Forsitan et, pinguis hortos quae cura colendi
Ornaret, canerem, biferique rosaria Paesti,
Quoque modo potis gauderent intiba rivis
Et virides apio ripae, tortusque per herbam
Cresceret in ventrem cucumis; nec sera comantem
Narcissum aut flexi tacuissem vimen acanthi
Pallentisque hederas et amantis litora myrtos.
Namque sub Oebaliae memini me turribus arcis,
Qua niger umectat flaventia culta Galaesus,
Corycium vidisse senem, cui pauca relicti
Iugera ruris erant, nec fertilis illa iuvencis
Nec Cereri opportuna seges nec commoda Baccho.
Hic rarum tamen in dumis holus albaque circum
Lilia verbenasque premens vescumque papaver
Regum aequabat opes animis, seraque revertens
Nocte domum dapibus mensas onerabat inemptis.
Primus vere rosam atque autumno carpere poma,

Et cum tristis hiemps etiamnum frigore saxa
Rumperet et glacie cursus frenaret aquarum,
Ille comam mollis iam tondebat hyacinthi
Aestatem increpitans seram zephyrosque morantis.
Ibid. iv. 116–138.

2. (*a*) Who was 'the last of the Republican poets'—'Tenderest of the Roman poets nineteen hundred years ago'?—and what do you know of his works?

(*b*) 'There is no Latin book the recovery of which we should hail with such pleasure.' Give some account of this.

(*c*) 'That warm Italian nature . . . could turn at a moment's notice from the grapple of a deadly duel to the delicate rapier practice of the fencing school.' To what does Cruttwell here allude?

(*d*) 'The three crises in Cicero's life show his genius and his conduct in the brightest light.' Explain fully.

(*e*) What two things marked off the *mimes* from the *Atellanae*? Mention two writers of mimes of a higher tone. How do they differ from pantomime?

(*f*) What is the subject of Lucretius' poem?

(*g*) Write a note on *Menippean Satire.*

(*h*) Mention an extant *Fabula Rhinthonica.*

(*i*) Mention any striking grammatical warning of Julius Caesar. What forms did he introduce into Latin?

(*j*) In what part of his work is Sallust at his best?

3. (*a*) What does Mommsen call 'one of the most righteous wars Rome ever waged'? Give his reasons. How was it brought about?

(*b*) Give an account of the career of T. Quinctius Flamininus.

(*c*) How did the senseless spirit of revenge lead the Romans to play into Hannibal's hands in 212 B.C.?

(*d*) 'It almost seemed as if the Romans had compromised themselves as uselessly before Messana as the Carthaginians before Tarentum.' Explain fully.

(*e*) What was 'one of the boldest and most fortunate *coups de main* known in history'?

(*f*) What were the 'three fetters of the Hellenes'?

(*g*) What was the end of Q. Fabius?

(*h*) What were the two principles of Hannibal's operations in Italy?

4. (*a*) What is *heteroclite* declension? Give three examples.

(*b*) What is *Rhotacism*? Give examples. Is *causa* an exception?

(*c*) Write etymological notes on—*bellum, audeo, semel, venio, gigno.*

(*d*) Put into Latin:—Ten years ago he pitied no one. How few there are who do not hate ingratitude. Remember the difference between your position and that of Gracchus. After making this reply he went home sooner than anyone expected.

GREEK.

Examiner—Professor D'Arcy Thompson.

Translate into English:—

I.

Αἱ δ' ὅτε δὴ ποταμοῖο ῥόον περικαλλέ' ἵκοντο,
ἔνθ' ἤτοι πλυνοὶ ἦσαν ἐπηετανοί, πολὺ δ' ὕδωρ
καλὸν ὑπεκπρορέει μάλα περ ῥυπόωντα καθῆραι,
ἔνθ' αἵ γ' ἡμιόνους μὲν ὑπεκπροέλυσαν ἀπήνης.
καὶ τὰς μὲν σεῦαν ποταμὸν πάρα δινήεντα
τρώγειν ἄγρωστιν μελιηδέα· ταὶ δ' ἀπ' ἀπήνης
εἵματα χερσὶν ἔλοντο καὶ ἐσφόρεον μέλαν ὕδωρ,
στεῖβον δ' ἐν βόθροισι θοῶς ἔριδα προφέρουσαι.
αὐτὰρ ἐπεὶ πλῦνάν τε κάθηράν τε ῥύπα πάντα,
ἐξείης πέτασαν παρὰ θῖν' ἁλός, ἦχι μάλιστα
λάϊγγας ποτὶ χέρσον ἀποπλύνεσκε θάλασσα.
αἱ δὲ λοεσσάμεναι καὶ χρισάμεναι λίπ' ἐλαιῳ
δεῖπνον ἔπειθ' εἵλοντο παρ' ὄχθῃσιν ποταμοῖο,
εἵματα δ' ἠελίοιο μένον τερσήμεναι αὐγῇ.

Homer, *Odyssey*, vi. 85–98.

II.

κεῖται δὲ χωρὶς σῶμα, τὸ μὲν ὑπὸ στύφλοις
πέτραις, τὸ δ' ὕλης ἐν βαθυξύλῳ φόβῃ,
οὐ ῥᾴδιον ζήτημα· κρᾶτα δ' ἄθλιον,
ὅπερ λαβοῦσα τυγχάνει μήτηρ χεροῖν,
πήξασ' ἐπ' ἄκρον θύρσον ὡς ὀρεστέρου
φέρει λέοντος διὰ Κιθαιρῶνος μέσου,
λιποῦσ' ἀδελφὰς ἐν χοροῖσι Μαινάδων.
χωρεῖ δὲ θήρᾳ δυσπότμῳ γαυρουμένη
τειχέων ἔσω τῶνδ', ἀνακαλοῦσα Βάκχιον
τὸν ξυγκύναγον, τὸν ξυνεργάτην ἄγρας
τὸν καλλίνικον, ᾧ δάκρυα νικηφορεῖ.
ἐγὼ μὲν οὖν τῇδ' ἐκποδὼν τῇ ξυμφορᾷ
ἄπειμ', Ἀγαύην πρὶν μολεῖν πρὸς δώματα.
τὸ σωφρονεῖν δὲ καὶ σέβειν τὰ τῶν θεῶν
κάλλιστον· οἶμαι δ' αὐτό καὶ σοφώτατον
θνητοῖσιν εἶναι κτῆμα τοῖσι χρωμένοις.

EURIPIDES, *Bacchæ*, 1136–1152.

III.

πρῶτον μὲν μόνοι τῶν πάντων ἀνθρώπων ἐπὶ τοῖς τελευτήσασι δημοσίᾳ ποιεῖτε λόγους ἐπιταφίους, ἐν οἷς κοσμεῖτε τὰ τῶν ἀγαθῶν ἀνδρῶν ἔργα. καίτοι τοῦτ' ἔστι τὸ ἐπιτήδευμα ζηλούντων ἀρετὴν, οὐ τοῖς ἐπὶ ταύτῃ τιμωμένοις φθονούντων. εἶτα μεγίστας δίδοτε ἐκ παντὸς τοῦ χρόνου δωρεὰς τοῖς τοὺς γυμνικοὺς νικῶσιν ἀγῶνας τοὺς στεφανίτας, καὶ οὐχ, ὅτι τῇ φύσει τούτων ὀλίγοις μέτεστιν, ἐφθονήσατε τοῖς ἔχουσιν, οὐδ' ἐλάττους ἐνείματε τὰς τιμὰς διὰ ταῦτα. πρὸς δὲ τούτοις τοιούτοις οὖσιν οὐδεὶς πώποτε τὴν πόλιν ἡμῶν εὖ ποιῶν δοκεῖ νικῆσαι· τοσαύτας ὑπερβολὰς τῶν δωρεῶν, αἷς ἀντ' εὖ ποιεῖ, παρέσχηται. ἔστι τοίνυν πάντα ταῦτ', ὦ ἄνδρες Ἀθηναῖοι, δικαιοσύνης, ἀρετῆς, μεγαλοψυχίας ἐπιδείγματα. μὴ τοίνυν δι' ἃ πάλαι παρὰ πάντα τὸν χρόνον ἡ πόλις εὐδοξεῖ, ταῦτ' ἀνέλητε νῦν· μηδ' ἵνα Λεπτίνης ἰδίᾳ τισὶν, οἷς ἀηδῶς ἔχει, ἐπηρεάσῃ, τῆς πόλεως ἀφέλησθε καὶ ὑμῶν αὐτῶν ἣν διὰ παντὸς ἀεὶ τοῦ χρόνου δόξαν κέκτησθε καλήν· μηδ' ὑπολαμβάνετ' εἶναι τὸν ἀγῶνα τόνδε ὑπὲρ ἄλλου τινὸς ἢ τοῦ τῆς πόλεως ἀξιώματος, πότερον αὐτὸ δεῖ σῶν εἶναι καὶ ὅμοιον τῷ προτέρῳ, ἢ μεθεστάναι καὶ λελυμάνθαι.—DEMOSTHENES, *Leptines*, 141–142.

IV.

Τισαμενῷ γὰρ μαντευομένῳ ἐν Δελφοῖσι περὶ γόνου ἀνεῖλε ἡ Πυθίη ἀγῶνας τοὺς μεγίστους ἀναιρήσεσθαι πέντε. ὁ μὲν δὴ ἁμαρτὼν τοῦ χρηστηρίου προσεῖχε τοῖσι γυμνασίοισι ὡς ἀναιρησόμενος γυμνικοὺς ἀγῶνας, ἀσκέων δὲ πεντάεθλον παρὰ ἓν πάλαισμα ἔδραμε νικᾶν Ὀλυμπιάδα, Ἱερωνύμῳ τῷ Ἀνδρίῳ ἐλθὼν ἐς ἔριν. Λακεδαιμόνιοι δὲ μαθόντες οὐκ ἐς γυμνικοὺς ἀλλ' ἐς ἀρηΐους ἀγῶνας φέρον τὸ Τισαμενοῦ μαντήϊον, μισθῷ ἐπειρῶντο πείσαντες Τισαμενὸν ποιέεσθαι ἅμα Ἡρακλειδέων τοῖσι βασιλεῦσι ἡγεμόνα τῶν πολέμων. ὁ δὲ ὁρέων περὶ πολλοῦ ποιευμένους Σπαρτιήτας φίλον αὐτὸν προσθέσθαι, μαθὼν τοῦτο ἀνετίμα, σημαίνων σφι, ὡς ἤν μιν πολιήτην σφέτερον ποιήσωνται τῶν πάντων μεταδιδόντες, ποιήσει ταῦτα, ἐπ' ἄλλῳ μισθῷ δ' οὔ. Σπαρτιῆται δὲ πρῶτα μὲν ἀκούσαντες δεινὰ ἐποιεῦντο καὶ μετίεσαν τῆς χρησμοσύνης τὸ παράπαν, τέλος δὲ δείματος μεγάλου ἐπικρεμαμένου τοῦ Περσικοῦ τούτου στρατεύματος καταίνεον μετιόντες. ὁ δὲ γνοὺς τετραμμένους σφέας οὐδ' οὕτω ἔτι ἔφη ἀρκέεσθαι τούτοισι μούνοισι, ἀλλὰ δέειν ἔπι καὶ τὸν ἀδελφεὸν ἑωυτοῦ Ἡγίην γίνεσθαι Σπαρτιήτην ἐπὶ τοῖσι αὐτοῖσι λόγοισι τοῖσι καὶ αὐτὸς γινεται.—HERODOTUS, IX., 33, 5–25.

V.

Unprescribed Passage.

ἐπεὶ δὲ ἀφίκοντο οἱ πρέσβεις ἕκαστοι οἴκαδε, τὸν μὲν Τιμαγόραν ἀπέκτειναν οἱ Ἀθηναῖοι, κατηγοροῦντος τοῦ Λέοντος, ὡς οὔτε συσκηνοῦν ἐθέλοι ἑαυτῷ, μετά τε Πελοπίδου πάντα βουλεύοιτο. τῶν δὲ ἄλλων πρέσβεων ὁ μὲν Ἠλεῖος Ἀρχίδαμος, ὅτι προὐτίμησε τὴν Ἦλιν πρὸ τῶν Ἀρκάδων, ἐπῄνει τὰ βασιλέως, ὁ δὲ Ἀντίοχος, ὅτι ἠλαττοῦτο τὸ Ἀρκαδικόν, οὔτε τὰ δῶρα ἐδέξατο, ἀπήγγειλέ τε πρὸς τοὺς μυρίους, ὅτι βασιλεὺς ἀρτοκόπους μὲν καὶ ὀψοποιοὺς καὶ οἰνοχόους καὶ θυρωροὺς παμπληθεῖς ἔχοι, ἄνδρας δέ οἳ μάχοιντ' ἂν Ἕλλησι πάνυ ζητῶν, οὐκ ἔφη δύνασθαι ἰδεῖν. πρὸς δὲ τούτοις καὶ τὸ τῶν χρημάτων πλῆθος ἀλαζονείαν οἵ γε δοκεῖν ἔφη εἶναι, ἐπεὶ καὶ τὴν ὑμνουμένην ἂν χρυσῆν πλάτανον οὐχ ἱκανὴν ἔφη εἶναι τέττιγι σκιὰν παρέχειν.—XENOPHON, *Hellenics*, VII., 1, 38.

GREEK.

Examiner—PROFESSOR D'ARCY THOMPSON.

HISTORY (B.C. 500 TO B.C. 322).

1. At what date and under what circumstances do we find a Hellenic people interfering for the first time in the concerns of Egypt?

2. At what date was the Athenian power at its height? and what were its foreign possessions at the time?

3. Give a *résumé* of the history of Syracuse from the destruction of the Athenian armament to the death of Timoleon.

GRAMMAR.

(*a*) Give two instances of verbs that have presents but no aorists, and two instances of verbs that have aorists (or past tenses) but no presents.

(*b*) Give one instance apiece of a first person singular of present tense active of denominative verbs ending respectively in :—

οω : αω : εω : ενω : ιζω : αζω : αινω : υνω.

(*c*) Translate the following compounds so as to exhibit their respective *definitive* or *possessive* character :

λογογράφος : χειροποίητος : and μακρόχειρ : ὁμότροπος.

(*d*) Accentuate the following compounds where the last part is active, denoting the agent :—

λιθοβολος : ὑδροφορος : λογοποιος : ψυχοπομπος.

(*e*) Give three instances of verbs beginning with a vowel that take the syllabic augment in either imperfect or aorist.

(*f*) 'The accent of the purely verbal parts of the inflection of a Greek verb follow the *recessive* accent; but the *infinitive* and *participle* present several exceptions.'

Illustrate, by examples, these exceptions.

COMPOSITION.

Render into Greek prose the following :—

The literary education of a Spartan was of a most restricted kind. He was taught to despise literature as unworthy of a warrior, while the study of eloquence and philosophy, which were cultivated at Athens with extraordinary success, was regarded at Sparta with contempt. Long speeches were a Spartan's abhorrence, and he was trained to express himself with sententious brevity.

A Spartan was not considered to have reached the full age of manhood till he had completed his thirtieth year. He was then allowed to marry, to take part in the public assembly, and was eligible to the offices of the State. But he still continued under public discipline, and it was not until he had reached his sixtieth year that he was released from the public discipline and from military service.

FRENCH.

(Arts, Medicine, and Engineering.)

Examiner—PROFESSOR STEINBERGER.

COMPOSITION.

1. Translate into French :—

It has been said that the Tudors were as absolute as the Cæsars. Never was parallel so unfortunate. The government of the Tudors was the direct opposite to the government of Augustus and his successors. The Cæsars ruled despotically, by means of a great standing army, under the decent forms of a republican constitution. They called themselves citizens. They mixed unceremoniously with other citizens. In theory they were only the elective magistrates of a free commonwealth. Instead of arrogating to themselves despotic power, they acknowledged allegiance to the senate. They were merely the lieutenants of that venerable body. They mixed in debate. They even appeared as advocates before the courts of law. Yet

they could safely indulge in the wildest freaks of cruelty and rapacity, while their legions remained faithful. Our Tudors, on the other hand, under the titles and forms of monarchical supremacy, were essentially popular magistrates. They had no means of protecting themselves against the public hatred; and they were therefore compelled to court the public favour. To enjoy all the state and all the personal indulgences of absolute power, to be adored with Oriental prostrations, to dispose at will of the liberty and even of the life of ministers and courtiers, this the nation granted to the Tudors. But the condition on which they were suffered to be the tyrants of Whitehall was that they should be the mild and paternal sovereigns of England. —MACAULAY, *Burleigh and his Times.*

2. Write, in French, an analysis of about twenty lines of 'La joie fait peur.'

3. Oral examination on the authors prescribed.

GERMAN.

(Arts, Medicine, and Engineering.)

Examiner—PROFESSOR STEINBERGER.

COMPOSITION.

1. Translate into German :—

The Girondists were the philosophers of the Revolution. Their ideas were often grand and generous, drawn from the heroes of Greece and Rome, or the more enlarged philanthropy of modern times; their language ever indulgent and seducing to the people; their principles those which gave its early popularity and its immense celebrity to the Revolution. But they judged of mankind by a false standard; their ruinous error consisted in supposing that the multitude could be regulated by the motives which influenced the austere patriots, whom they numbered among their own body. An abstract sense of justice, a passion for general equality, a repugnance for violent governments, distinguished their speeches; but yet from their innovations has sprung the most oppressive tyranny

of modern times, and they were at last found joining in many measures of the most flagrant iniquity. The dreadful war which ravaged Europe for twenty years was provoked by their declamations. The radical and inherent vice of this party was their irreligion; and the dreadful misfortunes in which they involved their country, proved how inadequate the most splendid talents are to the management of human affairs, or the right of social duty, without that overruling principle. With all their love of justice they declared Louis guilty: with all their humanity, they voted for his death.—A. Alison.

2. Write, in German prose, any of the prescribed poems of Goethe (about twenty lines).

3. Oral examinations on the authors prescribed.

ENGLISH.

First Paper.

Examiner—The President.

1. Illustrate, from *Richard II.*, (*a*) what Dr. Dowden calls 'the boyishness' of Richard's mind; (*b*) his 'pseudo-poetic pathos.'

2. Brandes speaks of Shakespeare's 'Non-political but purely sensuous contempt for the people.' Illustrate his meaning.

3. Illustrate, from *Richard II.*, 'the patriotic enthusiasm of Young England in the days of Elizabeth.'

4. Write an essay, with full illustration, on Shakespeare's manipulation of metre.

5. 'Can sick men play so nicely with their names?'

Illustrate, and quote Coleridge's remarks upon this sentiment.

6. (*a*) Write notes on the following:—*perspectives, model, beadsman, manage, rubs.*

(*b*) 'For now hath Time made me his numbering clock.'

Develop this comparison.

7. Write a short account of Bolingbroke's life, and discuss Pope's indebtedness to him in the *Essay on Man.*

8. 'It appears from Bolingbroke's philosophical writings that he rejected the doctrine of revelation and of the immortality of the soul.'

Show how far Pope was influenced in his *Essay on Man* by these views.

9. (*a*) Who were Lord Bathurst—Jean Pierre de Crousaz?

(*b*) Write a short Essay on Pope's rhymes.

(*c*) 'Far as Creation's ample range extends,
The scale of sensual mental pow'rs ascends.'

Develop this thought.

10. Quote some of the most celebrated *sententiae* in the *Essay on Man*.

ENGLISH.

Second Paper.

Examiner—The President.

1. (*a*) Where does Gray speak of 'the luxury of light' of the diamond?

(*b*) Give the substance of Gray's character as painted by himself.

(*c*) 'Nature knew him (Gray) for her lover, and unsealed for him her inmost secrets.'

Illustrate.

2. Write an Essay on Gray's indebtedness to earlier poets.

3. Assign to their contexts the following:—The vultures of the mind,—The summer friend, the flattering foe,—Streamed, like a meteor, to the troubled air,—The short and simple annals of the poor.

4. Illustrate fully the skill with which Gray adapts the sound of his lines to the sense.

5. (*a*) Give the scheme of the metre of the first strophe of of the *Progress of Poesy*.

(*b*) Quote the celebrated imitation of First Pythian of Pindar.

6. (*a*) Who were Walsh and Theobald? Pope's estimate of the latter is strangely prejudiced?

(*b*) Give the substance of Johnson's comparison of Dryden and Pope.

7. Illustrate from the *Life of Pope* the peculiar merits and defects of Johnson's style.

8. Give the substance of Addison's remarks upon Wit and Humour.

9. (*a*) Give a short account of Hume's *Treatise on Human Nature.*

(*b*) Discuss the authorship of the letters of Junius.

10. Write a short account of the Literary Forgeries of the 18th Century.

SCIENCE SCHOLARSHIP OF THE SECOND YEAR.

ALGEBRA AND TRIGONOMETRY.

(Arts and Engineering.)

Examiner—PROFESSOR A. C. DIXON.

1. Prove that the number of ways in which it is possible, after writing n letters and directing the corresponding envelopes, to put a letter in each envelope so that all may go wrong is

$$n!\left[1-\frac{1}{1!}+\frac{1}{2!}-\frac{1}{3!}\cdots+\frac{(-1)^n}{n!}\right].$$

2. Solve the equations

$$x^2+2yz=41,\quad y^2+2zx=36,\quad z^2+2xy=44.$$

3. Prove that, for any positive integral value of n,

$$n^2(2n-1)+7^{2n}\,n(n^3-2)$$

is a multiple of 24.

4. Find the numerators of two fractions whose sum is

$$\frac{a-b}{(x+a)(x+b)}$$

and whose denominators are $x+a$, $x+b$, respectively. Find the sum to n terms and to infinity of the series

$$\frac{1}{(x+1)(x+3)}+\frac{1}{(x+2)(x+4)}+\frac{1}{(x+3)(x+5)}+\cdots$$

5. Show that

$$\sec\theta + \sec\left(\theta + \frac{2\pi}{5}\right) + \sec\left(\theta + \frac{4\pi}{5}\right) + \sec\left(\theta + \frac{6\pi}{5}\right) + \sec\left(\theta + \frac{8\pi}{5}\right) = 5\sec 5\theta.$$

6. Given the radii of the inscribed and two escribed circles of a triangle, find expressions for its sides and angles.

7. Prove that

$$\cos\frac{a}{2}\cos\frac{a}{4}\cos\frac{a}{8}\ \ldots\ \text{to infinity} = \frac{\sin a}{a},$$

and that

$$\sin a > a - \frac{1}{6}a^3.$$

8. Prove the formula $\cos a = \cos b \cos c + \sin b \sin c \cos A$ for all cases. Also prove the formula

$$\sin\frac{b-c}{2}\cos\frac{A}{2} = \sin\frac{a}{2}\sin\frac{B-C}{2}.$$

9. Solve a spherical triangle in which

$$A = 63^\circ\ 14', \quad B = 72^\circ\ 25', \quad C = 70^\circ\ 43'.$$

[*For Arts Students only.*]

10. Form the rational equation of lowest degree which has $3^{\frac{1}{3}} - 2^{\frac{1}{3}}$ as a root.

[*For Engineering Students only.*]

11. Find, in acres, etc., the area of a quadrilateral field $ABCD$, given $AB = 678$ yds., $BC = 837$ yds., $CD = 743$ yds., $DA = 802$ yds., $AC = 1035$ yds.

GEOMETRY.

[Arts and Engineering.]

Examiner—Professor A. C. Dixon.

1. If the sum or difference of the tangents from a point to two given circles is equal to the distance between the points of contact of one of their common tangents, show that the point must lie on one of the common tangents.

2. Prove that in any triangle, of the lines bisecting the angles and terminated by the opposite sides, that which bisects the greater angle is less than that which bisects the less.

3. Describe a sphere through three given points to touch a given straight line.

4. Find the formula for the surface of a sphere.

5. Three given lines are parallel to the same plane; prove that all lines meeting all three are also parallel to one plane.

6. Find the equation to the pedal line of the point $(a\cos\theta, a\sin\theta)$ for the triangle whose vertices are $(a\cos\alpha, a\sin\alpha)$ $(a\cos\beta, a\sin\beta)$ $(a\cos\gamma, a\sin\gamma)$.

7, QVQ' is a chord of a parabola bisected in V by the diameter which meets the curve in P. QQ' meets a chord PR in U and the diameter through R in T. Show that VU, VQ, VT are in proportion.

8. CP, CD are conjugate semidiameters of an ellipse whose foci are S, H. Prove that PS, PH are parallel, respectively, to the tangents from D to the minor auxiliary circle.

9. A triangle is inscribed in a conic so that its medians meet in the centre of the conic. Prove that the normals at the three vertices are concurrent.

10. Given the centre and three points of a conic, show how to tell whether it is an ellipse or a hyperbola.

EXPERIMENTAL PHYSICS.

[Arts, Medicine, and Engineering.]

Examiner—PROFESSOR ANDERSON.

1. Show that when a projectile is in motion, its total energy remains constant; and that its kinetic energy is the same for two points on the same level. Calculate the least energy which would be necessary to project a stone, of mass one pound, so that its range on a horizontal plane through the point of projection may be 100 feet.

2. Show that when a fluid is in equilibrium, the pressure at any point is the same in all directions; and that if the pressure at one point is increased, the pressure at every other point must be increased by the same amount to preserve equilibrium. How would you measure the pressure at any point in a volume of water placed in an open vessel?

3. Define the terms *absorptive power* and *emissive power*; and describe an experimental method of comparing the absorptive powers of two surfaces of different kinds for the same kind of heat, the surfaces being supposed to be at the same temperature.

4. Distinguish between the conduction and convection of heat in a gas. The conductivity of a gas is found to be independent of pressure and to increase with temperature. Give any reasons why these results should, from the nature of a gas, be regarded as probable.

5. What is meant by the interference of sound-waves? Two organ-pipes of the same pitch are mounted on the same wind-chest; why is the sound heard feebler than when only one pipe is used? What would be the effect of three?

6. Draw a figure illustrating the formation of a virtual image by a convex lens; and show that any other convex lens may be so placed as to produce a real image from this virtual one.

7. Show that the dispersion of light is a consequence of the different velocities of its constituents in transparent

media. What is meant by irrationality of dispersion? Point out its importance in the theory of the construction of achromatic lenses.

8. Explain why it is that, in an ordinary bar-magnet, the intensity of magnetisation is greatest at the middle. If portions at the ends were broken off, would the central portion have stronger poles than the original magnet? and why?

9. A Leyden jar whose outer coating is to earth is charged with a given quantity of electricity; calculate the energy of the charge, the capacity of the jar being given. When the jar is discharged, is the total dissipated energy localised in all cases in the spark?

10. When a wire connecting the poles of a battery is broken at any point a spark passes. To what is it due? How could you increase or diminish it without altering the battery or its connexions?

LITERARY SCHOLARSHIP OF THE THIRD YEAR.

LATIN.

FIRST PAPER.

Examiner—PROFESSOR SANDFORD.

1. Translate, with short notes:—

I.

Si novae gentes atque ignota acies constitisset, aliorum exercituum exemplis vos hortarer: nunc vestra decora recensete, vestros oculos interrogate. Hi sunt quos prox mo anno unam legionem furto noctis adgressos clamore debellastis: hi ceterorum Britannorum fugacissimi ideoque tam diu superstites. Quo modo silvas saltusque penetrantibus fortissimum quodque animal contra ruere, pavida et inertia ipso agminis sono pellebantur, sic acerrimi Britannorum iam pridem ceciderunt, reliquus est numerus ignavorum et metuentium. Quos quod tandem invenistis, non restiterunt, sed deprehensi sunt; novissimae res et extremo metu torpor

defixere aciem in his vestigiis, in quibus pulchram et spectabilem victoriam ederetis. Transigite cum expeditionibus, imponite quinquaginta annis magnum diem, adprobate rei publicae numquam exercitui imputari potuisse aut moras belli aut causas rebellandi.—TACITUS.

II.

Hunc Britanniae statum, has bellorum vices media iam aestate transgressus Agricola invenit, cum et milites velut omissa expeditione ad securitatem et hostes ad occasionem verterentur. Ordovicum civitas haud multo ante adventum eius alam in finibus suis agentem prope universam obtriverat, eoque initio erecta provincia. Et quibus bellum volentibus erat, probare exemplum ac recentis legati animum opperiri, cum Agricola, quamquam transvecta aestas, sparsi per provinciam numeri, praesumpta apud militem illius anni quies, tarda et contraria bellum inchoaturo, et plerisque custodiri suspecta potius videbatur, ire obviam discrimini statuit; contractisque legionum vexillis et modica auxiliorum manu, quia in aequum degredi Ordovices non audebant, ipse ante agmen, quo ceteris par animus simili periculo esset, erexit aciem.—*Ib.*

III.

Quod sine praenomine familiariter, ut debebas, ad me epistolam misisti, primum addubitavi num a Volumnio senatore esset, quocum mihi est magnus usus, deinde εὐτραπελία litterarum fecit, ut intellegerem tuas esse. Quibus in litteris omnia mihi periucunda fuerunt praetor illud, quod parum diligenter possessio salinarum mearum a te procuratore defenditur. Ais enim, ut ego discesserim, omnia omnium dicta, in his etiam Sestiana, in me conferri. Quid? tu id pateris? nonne defendis? nonne resistis? Equidem sperabam ita notata me reliquisse genera dictorum meorum, ut cognosci sua sponte possent.—CICERO.

IV.

Qua re quid ad me scripsisti de permutatione? quasi vero nunc me non tuae facultates sustineant, qua in re ipsa video miser et sentio quid sceleris admiserim, cum tu de visceribus tuis et filii tui satis facturus sis quibus debes, ego acceptam ex aerario pecuniam tuo nomine frustra dissiparim. Sed tamen et M. Antonio, quantum tu scripseras, et Caepioni tantumdem solutum est: mihi ad id, quod cogito, hoc,

quod habeo, satis est. Sive enim restituimur sive desperamur, nihil amplius opus est. Tu, si forte quid erit molestiae, te ad Crassum et ad Calidium conferas, censeo.—*Ib.*

v.

Tamen a malitia non discedis? Tenuiculo apparatu significas Balbum fuisse contentum. Hoc videris dicere, cum reges tam sint continentes, multo magis consulares esse oportere. Nescis me ab illo omnia expiscatum; recta enim a porta domum meam venisse: neque hoc admiror, quod non suam potius, sed illud, quod non ad suam. Ego autem tribus primis verbis: 'Quid noster Paetus?' At ille adiurans, nusquam se umquam libentius. Hoc si verbis adsecutus es, aures ad te adferam non minus elegantes: sin autem opsonio, peto a te, ne pluris esse balbos quam disertos putes. Me cotidie aliud ex alio impedit. Sed si me expediero, ut in ista loca venire possim, non committam ut te sero a me certiorem factum putes.—*Ib.*

2. (*a*) What does Tacitus say of Ireland?

(*b*) Why does he regard the tyranny of Domitian as more odious than that of Nero?

(*c*) How does Cicero express:—'The good old rule, the simple plan,' &c.; too good to be true; on that day I was a very Pompey in the robes of office: you may take your affidavit they're not mine.

(*d*) What criticism on Lucretius occurs in the letters?

3. Translate into Latin:—

In the interval between his campaigns Agricola was employed in the great labours of peace. He knew that the general must be perfected by the legislator, and that the conquest is neither permanent nor honourable which is only an introduction to tyranny. His first care was the regulation of his household, which, under former legates, had always been full of faction and intrigue, lay heavy on the province, and was as difficult to govern. He never suffered his private partialities to intrude into the conduct of public business; nor in appointing to employments did he permit solicitation to supply the place of merit, wisely sensible that in a proper choice of officers is almost the whole of government.—MERIVALE.

LATIN.

Second Paper.

Examiner—Professor Sandford.

I.

1. Translate, with short notes :—

Nam quaecumque cluent, aut his coniuncta duabus
Rebus ea invenies aut horum eventa videbis.
Coniunctum est id quod nusquam sine perniciali
Discidio potis est seiungi seque gregari ;
Pondus uti saxist, calor ignis, liquor aquai,
Tactus corporibus cunctis intactus inani ;
Servitium contra, paupertas, divitiaeque,
Libertas, bellum, concordia, cetera quorum
Adventu manet incolumis natura abituque,
Haec soliti sumus, ut par est, eventa vocare.
Tempus item per se non est, sed rebus ab ipsis
Consequitur sensus, transactum quid sit in aevo,
Tum quae res instet, quid porro deinde sequatur :
Nec per se quemquam tempus sentire fatendumst
Semotum ab rerum motu placidaque quiete.

Lucretius.

II.

Quod mihi vix unus toto liber exeat anno,
Desidiae tibi sum, docte Potite, reus.
Iustius at quanto mirere, quod exeat unus,
Labantur toti cum mihi saepe dies.
Nunc resalutantes video nocturnus amicos,
Gratulor et multis ; nemo, Potite, mihi.
Nunc ad luciferam signat mea gemma Dianam :
Nunc me prima sibi, nunc sibi quinta rapit.
Nunc consul, praetorve tenet, reducesque choreae :
Auditur toto saepe poeta die.
Sed nec causidico possis impune negare,
Nec si te rhetor grammaticusve roget.
Balnea post decimam lasso, centumque petuntur
Quadrantes. Fiet quando, Potite, liber ?

Martial.

III.

Libras quatuor, aut duas amico,
Algentemque togam, brevemque laenam,
Interdum aureolos manu crepantes,
Possint ducere qui duas Kalendas,
Quod nemo, nisi tu, Labulle, donas,
Non es, crede mihi, bonus. Quid ergo?
Ut verum loquar, optimus malorum.
Pisones, Senecasque, Memmiosque,
Et Crispos mihi redde, sed priores:
Fies protinus ultimus bonorum.
Vis cursu pedibusque gloriari?
Tigrim vince, levemque Passerinum.
Nulla est gloria, praeterire asellos. ID.

IV.

Nil erit ulterius, quod nostris moribus addat
Posteritas: eadem cupient facientque minores.
Omne in praecipiti vitium stetit. Utere velis,
Totos pande sinus. Dicas hic forsitan: Unde
Ingenium par materiae est? Unde illa priorum
Scribendi, quodcumque animo flagrante liberet
Simplicitas, cuius non audeo dicere nomen?
Quid refert, dictis ignoscat Mucius, an non?
Pone Tigellinum: taeda lucebis in illa,
Qua stantes ardent, qui fixo gutture fumant,
Et latum media sulcum diducis arena.
'Qui dedit ergo tribus patruis aconita, vehatur
Pensilibus plumis atque illinc despiciat nos?'
Quum veniet contra, digito compesce labellum
Accusator erit, qui verbum dixerit: Hic est!
Securus licet Aeneam Rutulumque ferocem
Committas: nulli gravis est percussus Achilles,
Aut multum quaesitus Hylas urnamque sequutus.
JUVENAL.

V.

Interea Megalesiacae spectacula mappae
Idaeum solenne colunt, similisque triumpho
Praeda caballorum Praetor sedet, ac, mihi pace
Immensae nimiaeque licet si dicere plebis,
Totam hodie Romam circus capit, et fragor aurem
Percutit, eventum viridis quo colligo panni.

Nam si deficeret, maestam attonitamque videres
Hanc urbem, veluti Cannarum pulvere victis
Consulibus. Spectent iuvenes, quos clamor et audax
Sponsio, quos cultae decet adsedisse puellae.
Nostra bibat vernum contracta cuticula solem
Effugiatque togam. Iam nunc in balnea, salva
Fronte, licet vadas, quamquam solida hora supersit
Ad sextam. Facere hoc non possis quinque diebus
Continuis, quia sunt talis quoque taedia vitae
Magna. Voluptates commendat rarior usus. ID.

2. (*a*) What does Lucretius say of Epicurus, of Ennius, of Empedocles? What, according to him, are the sole constituents of nature?

(*b*) Give, as complete a list as you can, of the members of Domitian's *consilium* mentioned in Juvenal, *Sat.* iv.

3. (*a*) What was the only case in which a dead Emperor triumphed?

(*b*) What were the main principles that distinguished the principate of Hadrian? His first important act shows how typical he was of his age?

(*c*) What was the last occasion on which the triumphal insignia were conferred?

(*d*) Nerva 'res olim dissociabiles miscuit.' Explain.

(*e*) What incidents are connected with the names:—Tapae, Cassius Longinus, Marius Priscus?

(*f*) What is 'one of the greatest losses that history has to deplore,' and how is it in part compensated?

(*g*) Trojan developed the monarchical principle in two ways? What extant work gives us a clear insight into his methods of administration?

(*h*) Name three Epic poets of the Flavian Era, and give some account of their works.

(*i*) What were the *agri decumates*, the *consiliarii Augusti*, *canabae*?

(*j*) 'The reign of Domitian forms an epoch in the growth of the principality.' Develop this remark.

(*k*) Which of the Emperors was 'the darling of the world'? What great disaster occurred during his reign? Who gives us a vivid account of this?

(*l*) Two contemporary writers are not mentioned by Martial?

4. (*a*) Account for the forms *arbor*, *arboris*.

(*b*) What is the general principle in Grimm's Law? How has it been modified?

(*c*) What is meant by *Ablaut*? Give examples.

(*d*) What limitation is there in the use of *licet* 'although,' and *quamvis*?

(*e*) Explain the construction of the future infin. passive.

5. Translate into Latin :—

In whatever way we behave, what will be shall be: As often as he saw me he summoned me to him: It would have been your duty to forgive me if I were silent: For as to me, what do you think my feelings were then?

GREEK.

Examiner—Professor D'Arcy Thompson.

1. Translate into English :—

I.

ἤριπε δ' ὡς ὅτε τις δρῦς ἤριπεν ἢ ἀχερωΐς
ἠὲ πίτυς βλωθρὴ, τήν τ' οὔρεσι τέκτονες ἄνδρες
ἐξέταμον πελέκεσσι νεήκεσι νήϊον εἶναι·
ὣς ὁ πρόσθ' ἵππων καὶ δίφρου κεῖτο τανυσθείς,
βεβρυχὼς, κόνιος δεδραγμένος αἱματοέσσης.
ἠΰτε ταῦρον ἔπεφνε λέων ἀγέληφι μετελθὼν,
αἴθωνα μεγάθυμον, ἐν εἰλιπόδεσσι βόεσσιν,
ὥλετό τε στενάχων ὑπὸ γαμφηλῇσι λέοντος,
ὣς ὑπὸ Πατρόκλῳ Λυκίων ἀγὸς ἀσπιστάων
κτεινόμενος μενέαινε, φίλον δ' ὀνόμηνεν ἑταῖρον·
"Γλαῦκε πέπον, πολεμιστὰ μετ' ἀνδράσι, νῦν σε μάλα χρὴ
αἰχμητήν τ' ἔμεναι καὶ θαρσαλέον πολεμιστήν·
νῦν τοι ἐελδέσθω πόλεμος κακὸς, εἰ θοός ἐσσι.

πρῶτα μὲν ὄτρυνον Λυκίων ἡγήτορας ἄνδρας,
πάντῃ ἐποιχόμενος, Σαρπηδόνος ἀμφιμάχεσθαι·
αὐτὰρ ἔπειτα καὶ αὐτὸς ἐμεῦ περιμάρναο χαλκῷ."

HOMER, *Iliad*, XVI. 481–497.

II.

μή νυν ἓν ἦθος μοῦνον ἐν σαυτῷ φόρει,
ὡς φῂς σὺ, κοὐδὲν ἄλλο, τοῦτ' ὀρθῶς ἔχειν.
ὅστις γὰρ αὐτὸς ἢ φρονεῖν μόνος δοκεῖ,
ἢ γλῶσσαν ἣν οὐκ ἄλλος, ἢ ψυχὴν ἔχειν,
οὗτοι διαπτυχθέντες ὤφθησαν κενοί.
ἀλλ' ἄνδρα, κεἴ τις ἦ σοφὸς, τὸ μανθάνειν
πόλλ' αἰσχρὸν οὐδὲν καὶ τὸ μὴ τείνειν ἄγαν.
ὁρᾷς παρὰ ῥείθροισι χειμάρροις ὅσα
δένδρων ὑπείκει, κλῶνας ὡς ἐκσώζεται,
τὰ δ' ἀντιτείνοντ' αὐτόπρεμν' ἀπόλλυται.
οὕτως δὲ ναὸς ὅστις ἐγκρατῆ πόδα
τείνας ὑπείκει μηδὲν, ὑπτίοις κάτω
στρέψας τὸ λοιπὸν σέλμασιν ναυτίλλεται.
ἀλλ' εἶκε καὶ θυμῷ μετάστασιν δίδου.

SOPHOCLES, *Antigone*, 705–718.

III.

εἰ δέ τις ἰδίᾳ τινὰ δεδιὼς ἄρα, μὴ ἐγώ τισι προσθῶ τὴν πόλιν, ἀπρόθυμός ἐστι, πάντων μάλιστα πιστευσάτω. οὐ γὰρ συστασιάσων ἥκω, οὐδὲ ἀσαφῆ τὴν ἐλευθερίαν νομίζω ἐπιφέρειν, εἰ τὸ πάτριον παρεὶς τὸ πλέον τοῖς ὀλίγοις ἢ τὸ ἔλασσον τοῖς πᾶσι δουλώσαιμι. χαλεπωτέρα γὰρ ἂν τῆς ἀλλοφύλου ἀρχῆς εἴη, καὶ ἡμῖν τοῖς Λακεδαιμονίοις οὐκ ἂν ἀντὶ πόνων χάρις καθίσταιτο, ἀντὶ δὲ τιμῆς καὶ δόξης αἰτία μᾶλλον· οἵς τε τοὺς Ἀθηναίους ἐγκλήμασι καταπολεμοῦμεν, αὐτοὶ ἂν φαινοίμεθα ἐχθίονα ἢ ὁ μὴ ὑποδείξας ἀρετὴν κατακτώμενοι. ἀπάτῃ γὰρ εὐπρεπεῖ αἴσχιον τοῖς γε ἐν ἀξιώματι πλεονεκτῆσαι ἢ βίᾳ ἐμφανεῖ· τὸ μὲν γὰρ ἰσχύος δικαιώσει, ἣν ἡ τύχη ἔδωκεν, ἐπέρχεται, τὸ δὲ γνώμης ἀδίκου ἐπιβουλῇ. οὕτω πολλὴν περιωπὴν τῶν ἡμῖν ἐς τὰ μέγιστα διαφόρων ποιούμεθα. καὶ

οὐκ ἂν μείζω πρὸς τοῖς ὅρκοις βεβαίωσιν λάβοιτε, ἢ οἷς τὰ ἔργα ἐκ τῶν λόγων ἀναθρούμενα δόκησιν ἀναγκαίαν παρέχεται ὡς καὶ ξυμφέρει ὁμοίως ὡς εἶπον.—THUCYDIDES, IV. 86.

IV.

καλῶς, ἔφη, λέγεις, ὁ Σιμμίας· καὶ ἐγώ τέ σοι ἐρῶ ὃ ἀπορῶ, καὶ αὖ ὅδε ἧ οὐκ ἀποδέχεται τὰ εἰρημένα. ἐμοὶ γὰρ δοκεῖ, ὦ Σώκρατες, περὶ τῶν τοιούτων, ἴσως ὥσπερ καὶ σοί, τὸ μὲν σαφὲς εἰδέναι ἐν τῷ νῦν βίῳ ἢ ἀδύνατον εἶναι ἢ παγχάλεπόν τι, τὸ μέντοι αὖ τὰ λεγόμενα περὶ αὐτῶν μὴ οὐχὶ παντὶ τρόπῳ ἐλέγχειν καὶ μὴ προαφίστασθαι, πρὶν ἂν πανταχῇ σκοπῶν ἀπείπῃ τις, πάνυ μαλθακοῦ εἶναι ἀνδρός· δεῖν γὰρ περὶ αὐτὰ ἓν γέ τι τούτων διαπράξασθαι, ἢ μαθεῖν ὅπῃ ἔχει ἢ εὑρεῖν ἤ, εἰ ταῦτα ἀδύνατον, τὸν γοῦν βέλτιστον τῶν ἀνθρωπίνων λόγων λαβόντα καὶ δυσεξελεγκτότατον, ἐπὶ τούτου ὀχούμενον ὥσπερ ἐπὶ σχεδίας κινδυνεύοντα διαπλεῦσαι τὸν βίον, εἰ μή τις δύναιτο ἀσφαλέστερον καὶ ἀκινδυνότερον ἐπὶ βεβαιοτέρου ὀχήματος ἢ λόγου θείου τινὸς διαπορευθῆναι. καὶ δὴ καὶ νῦν ἔγωγε οὐκ ἐπαισχυνθήσομαι ἐρέσθαι, ἐπειδὴ καὶ σὺ ταῦτα λέγεις, οὐδὲ ἐμαυτὸν αἰτιάσομαι ἐν ὑστέρῳ χρόνῳ ὅτι νῦν οὐκ εἶπον ἃ ἐμοὶ δοκεῖ.—PLATO, *Phædo*, XXXV.

2. Translate into English :—

Unprescribed Passage,

πρὸς θεῶν πατρῴων καὶ μητρῴων καὶ συγγενείας καὶ κηδεστίας καὶ ἑταιρίας, πάντων γὰρ τούτων πολλοὶ κοινωνοῦμεν ἀλλήλοις, αἰδούμενοι καὶ θεοὺς καὶ ἀνθρώπους παύσασθε ἁμαρτάνοντες εἰς τὴν πατρίδα, καὶ μὴ πείθεσθε τοῖς ἀνοσιωτάτοις τριάκοντα, οἳ ἰδίων κερδέων ἕνεκα ὀλίγου δεῖν πλείους ἀπεκτόνασιν Ἀθηναίων ἐν ὀκτὼ μησὶν ἢ πάντες Πελοποννήσιοι δέκα ἔτη πολεμοῦντες. ἐξὸν δ' ἡμῖν ἐν εἰρήνῃ πολιτεύεσθαι, οὗτοι τὸν πάντων αἴσχιστόν τε καὶ χαλεπώτατον καὶ ἀνοσιώτατον καὶ ἔχθιστον καὶ θεοῖς καὶ ἀνθρώποις πόλεμον ἡμῖν πρὸς ἀλλήλους παρέχουσιν. ἀλλ' εὖ γε μέντοι ἐπίστασθε ὅτι καὶ τῶν νῦν ὑφ' ἡμῶν ἀποθανόντων οὐ μόνον ὑμεῖς ἀλλὰ καὶ ἡμεῖς ἔστιν οὓς πολλὰ κατεδακρύσαμεν.—XENOPHON, *Hellenics*, II. 4, 21, 22.

GREEK.

Examiner—PROFESSOR D'ARCY THOMPSON.

HISTORY.

1. Give particulars as to the origin and functions of the 'Confederacy of Delos.'

2. Enumerate the several causes of the Rise and Development of the Athenian Empire.

3. Between what dates did the Athenian Empire exist? And at what particular date, in connexion with what event, would you fix its culminating point?

4. Enumerate the causes, external and internal, that tended to abbreviate the duration of that empire.

GRAMMAR AND PHILOLOGY.

(*a*) Give two instances of verbs that have presents but no aorists, and two instances of verbs that have aorists (or past tenses) but no presents.

(*b*) Give one instance apiece of a first person singular of present tense active of denominative verbs ending respectively in:—

οω : αω : εω : ενω : ιζω : αζω : αινω : υνω.

(*c*) Translate the following compounds so as to exhibit their respective *definitive* or *possessive* character:—

λογογράφος : χειροποίητος : and μακρόχειρ ὁμάτροπος.

(*d*) Accentuate the following compounds where the last part is active, denoting the agent:—

λιθοβολος : ὑδροφορος : λογοποιος : ψυχοπομπος.

(*e*) Give three instances of verbs beginning with a vowel that take the syllabic augment in either imperfect or aorist.

(*f*) 'The accent of the purely verbal parts of the inflection of a Greek verb follow the *recessive* accent; but the *infinitive* and *participle* present several exceptions.'

Illustrate by examples these exceptions.

(*g*) 'By the majority of philologists Ablaut is attributed to the influence of pitch accent.'

Define Ablaut, and illustrate the above statement, with two examples.

(*h*) In what class of verbs is the phenomenon of Ablaut found in greatest variety? Give three specimens.

(*i*) Give, without any explanatory comments, as many instances as you can of the various formations of the, so-called, *present*-tense systems.

COMPOSITION.

5. Render into Greek:—

The separate advantage of an Oligarchy consists in the wisdom which may be expected from experience and education. A permanent council naturally possesses experience, and the members who succeed to their places in it by inheritance will probably be trained and educated with a view to the stations which they are destined by their birth to occupy.

The evils of an Oligarchy are dissensions in the ruling orders of the State, which, from the want of a common superior, are liable to proceed to the most desperate extremities; oppression of the lower orders by the privileges of the higher, and by laws partial to the separate interests of the law-makers.

FRENCH.

Examiner—PROFESSOR STEINBERGER.

THÈME.

1. Traduisez en français:—

Notwithstanding the vastness of the stage on which M. de Tallyrand acted, and the importance of the parts which, for more than half a century, he played, I venture to doubt whether his character has ever been fairly given, or is at this moment justly appreciated; nor is this altogether surprising. In a life so long, brilliant, and varied, we must expect to find a diversity of impressions succeeding and effacing each other; and not a few who admired the captivating companion, and reverenced the skilful minister of foreign affairs, were ignorant that the celebrated wit and sagacious diplomatist had exhibited an exquisite taste in letters, and a profound knowledge in legislation and finance. Moreover, though it may appear singular, it will be found true, that it is precisely those public men who are the most

tolerant to adverse opinions, and the least prone to personal enmities, who oftentimes gather round their own reputation, at least during a time, the darkest obloquy, and the most terrible reproaches. The reason for this is simple: such men are themselves neither subject to any predominant affection, nor devoted to any favourite theory. Calm and impartial, they are lenient and forgiving. On the other hand, men who love things passionately, or venerate things deeply, despise those who forsake, and detest those who oppose, the object of their adoration or respect.—LYTTON BULWER, *Historical Characters.*

HISTOIRE DE LA LANGUE FRANÇAISE.

2. Comment rend-on en français les formes latines *lea*, *lia*? Donnez des exemples.

3. Comment expliquez-vous la présence de la lettre *e* dans les mots suivants: *é*pi, *é*pée, *e*scarboucle?

4. Nommez les départements où le français n'est pas la langue usuelle du peuple.

5. Donnez l'étymologie du pronom *il* dans les verbes impersonnels.

6. Indiquez la forme populaire et la forme savante tirées de chacun des mots latins suivants: imprimere, dictum, clavicula, major, singularis, rigidus, numerus.

7. Comment explique-t-on la formation du féminin des adjectifs—*turc*, *grex*, *blanc*, *bon*, *coi*, *franc*, *tiers*?

8. Expliquez—

(*a*) la présence du *d* au futur de *tenir*;

(*b*) la modification de la voyelle *e* du radical en *ie* dans le même verbe.

LITTÉRATUBE FRANÇAISE.

9. Analysez le premier chant de l'Art poétique de Boileau. Quels sont les défauts et les qualités de cet ouvrage?

10. Fénelon, en parlant de Molière, dit: 'Il a donné un tour gracieux au vice, avec une austérité ridicule et odieuse à la vertu.' Quel jugement portez-vous sur cette assertion?

11. Faites à grands traits l'historique du mouvement littéraire, en France, sous le règne de Louis XIV.

12. Épreuve orale.

GERMAN.

Examiner—PROFESSOR STEINBERGER, M.A.

COMPOSITION.

1. Translate into German:—

Among the marriages through which the house of Austria has attained to wealth and power there is none more remarkable than that celebrated in the cathedral of Innspruck, on the 14th of February, 1342. The bridegroom in this solemnity was Ludwig, eldest son of the reigning Emperor of Germany, and the bride the widowed heiress of Tyrol, Margaret Maultasche. The name of this Duchess was not more grotesque than her personal appearance and her history. Maultasche was already far advanced in the forties. Her name of *Pouch-Mouth* had arisen from a malformation of her lips, which were of a most unusual size and thickness. Report added that in moments of excitement she could use her organ of speech with the most terrible effect. She had previously been married to the son of the King of Bohemia. But as this prince had been betrothed to her when he was but eight years old, the parties had, after incessant broils, sued for a divorce, and their marriage had been annulled. Since then she had never been in want of suitors, for she owned, besides Tyrol, the greater portion of Styria and Carinthia, and now she came, in spite of her mouth, her years, and her temper, to take for husband the Prince Imperial. The marriage did not turn out well. The crown passed into other hands, and the only important consequence was the acquisition of three large provinces by the house of Habsburg.

HISTORY.

2. Specify the principal vowel-changes which mark the transition from M. H. G. to N. H. G.

3. Account for the form of the perfect tense of the auxiliary verbs of: er hat ſchreiben können, müſſen, &c.

4. Man, Niemand, Mann. Comment on the orthography of these words, and give the etymology of nie.

5. Give the O. H. G. form of the N. H. G. prefix ge, and state to what extent the prefix was used in the formation of the past participle in the three different periods of the language.

6. Explain historically: Lande and Länder, Orte and Örter, Fräuleins. Comment on the gender of: Sitte, Fenſter, Weib, Bagage.

Deutſche Literatur.

7. Was iſt der Inhalt und literariſche Werth von Gutzkows „Zopf und Schwert"?

8. Welcher hiſtoriſche Vorfall gab Goethe den Stoff zu ſeinem Epos „Hermann und Dorothea"?

9. In wiefern unterſcheiden ſich Herder und Leſſing als literariſche Kritiker?

10. Über die Entſtehung und Entwicklung des Xenienſturms.

11. Wer waren Nicolai, Voß, Novalis, Fichte?

12. Oral examination.

ENGLISH.

First Paper.

Examiner.—The President.

1. 'Shakespeare created Hamlet a mystery, and therefore it is for ever suggestive, and never explicable.'

Write an Essay on this subject.

2. (*a*) 'Hillo, ho, ho, boy! Come, bird, come.'

Discuss the suitability of this line in the context.

(*b*) Write an Essay on Hamlet as a critic.

3. (*a*) Quote the advice of Polonius to Laertes, and Coleridge's and Dowden's remarks thereon.

(*b*) Quote the passage commencing—

'I have of late (but wherefore I know not) lost all my mirth.'

4. (*a*) Give the substance of Clarence's dream.

(*b*) Explain—

'Thus, like the formal vice, Iniquity,
I moralize two meanings in one word.'

'Make haste; the hour of death is expiate.'

5. Refer to passages that throw light upon the 'dæmonic energy' and 'pride of intellect' of Richard III.

6. (*a*) In what sense is Poetry 'Philosophoteron and Spoudaioteron then history'?

(*b*) Give the substance of the passage in which Sidney shows how the 'Poet not only teaches, but also attracts.'

7. (*a*) Quote the early references to Shakespeare.

(*b*) Discuss the various methods of classifying the plays of Shakespeare.

8. Write an Essay on the early history of the Drama.

ENGLISH.

Second Paper.

Examiner—The President.

1. (*a*) Quote, from the Essays, some of Bacon's celebrated apophthegms.

(*b*) Give Bacon's references to the 'Poet that beautified the Sect that was otherwise inferior to the rest';—to Montaigne.

(*c*) Explain 'The morris daunce of Heretices.'

2. (*a*) Give the substance of Bacon's remarks upon Revenge.

(*b*) Assign to their contexts the following:—

'In veste varietas sit, scissura non sit.'

'Hercules sailed the length of the great ocean in an Earthen Pot.'

3. (*a*) What does Bacon term 'the best Composition and Temperature' with regard to Simulation and Dissimulation?

(*b*) Give Bacon's remarks upon the 'Evill Eye.'

(*c*) What do you know about *Narses* and *Tamberlane*, *Busbechius*?

4. (*a*) What are the 'Devouring Trades'?

(*b*) 'The Schoolmen did faigne Eccentricks and Epicycles and such Engines of Orbs.' Explain.

(*c*) 'Merchants are the *Vena Porta*.' Explain.

5. Quote passages from Milton, illustrating his

(*a*) Sublimity;

(*b*) Appreciation of the beauties of Nature;

(*c*) Use of words in their Latin sense.

6. (*a*) Quote Milton's references to *Vallombrosa*, *Phlegra*, *Styx*, *Acheron*, *Cocytus*, *Bengala*, *Aspramont*.

(*b*) Give instances of spondaic lines in Milton.

7. (*a*) Describe the building of Pandemonium.

(*b*) Describe Belial.

(*c*) Complete the passage commencing:—'Sad cure! for who would lose ——'

8. (*a*) Write notes on the following:—

Assay, Baite, Essoyne, housling, impe, madrigale, pight, portesse, sad, say, stowre, swinge, trusse, uneath, bewaile.

(*b*) Quote passages illustrating Spenser's 'Gothic taste.'

(*c*) Quote Spenser's description of Sunrise.

9. Describe, as far as may be in Spenser's language,

(*a*) 'Plutoe's house.'

(*b*) Prince Arthur.

(*c*) Fidelia.

(*d*) The seven bead-men.

DEDUCTIVE LOGIC.

Examiner—THE PRESIDENT.

1. Explain how Mill and Fowler differ in their definition of *connotative* names. Distinguish *connotation, intension, comprehension*. In what sense is a proper name connotative?

2. Are *infinite* propositions of importance in Logic? Distinguish *conditional* from *hypothetical* propositions.

Determine the Quantity and Quality of the following propositions:—

None but the virtuous are happy.
A great scientist has discovered the doctrine of Evolution.
The determined alone achieve success in this world.

3. What is the meaning of Secondary Contradiction? Convert the following propositions:—

He can't be wrong whose life is in the right.
All that glitters is not gold.
The temperate alone escape fevers in a hot climate.

4. Distinguish *Obversion* from *Conversion by contraposition*, and give illustrations.

Give the contradictory and contrapositive of each of the following:—

No men are self-haters.
Happy are they whose lives are virtuous.

5. Describe the Eulerian diagrams, and illustrate by their means the relation betweeen A and E, and also certain rules of the syllogism.

6. 'The *dictum de omni et nullo* was given by Aristotle as the axiom on which all syllogistic inference is based.' Show how far Aristotle's belief is well-founded.

7. Explain the peculiarities and uses of each of the four figures of the syllogism. In what figures are the following moods valid:—AAI, AII, IAI?

8. Explain the following:—*dictum de diverso, dictum de exemplo.*

Distinguish Aristotle's use of the *Enthymeme* from the modern.

SCIENCE SCHOLARSHIP OF THE THIRD YEAR.

MATHEMATICS.

Examiner—PROFESSOR A. C. DIXON.

1. A parabola osculates a given circle and passes through its centre. Show that the locus of its focus is a concentric circle, and find the ratio of the radii.

2. The foci of an ellipse are S, H. Show that the product of the tangents from an external point T is

$$TS \cdot TH\left(\frac{x^2}{a^2} + \frac{y^2}{b^2} - 1\right) \Big/ \left(\frac{x^2}{a^2} + \frac{y^2}{b^2}\right).$$

3. If a triangle is self-conjugate with respect to a rectangular hyperbola, show that the centre of its inscribed circle lies on the curve.

4. Find the evolute of the curve

$$x = a(1 + 2\cos\theta + \cos 2\theta)$$
$$y = a(2\sin\theta + \sin 2\theta).$$

5. Prove that the equation $x = \cos x$ has only one real root, which lies between

$$\frac{1}{5}\pi \quad \text{and} \quad \frac{1}{4}\pi.$$

6. If $y = \sec^{-1}x$, prove that

$$(x^3 - x)\frac{d^{n+2}y}{dx^{n+2}} + \{(3n+2)x^2 - (n+1)\}\frac{d^{n+1}y}{dx^{n+1}} + n(3n+1)x\frac{d^ny}{dx^n} + n^2(n-1)\frac{d^{n-1}y}{dx^{n-1}} = 0.$$

7. Find which are the greatest and least rectangles circumscribed to a given ellipse.

8. Give the definition of an integral as the sum of infinitesimal elements, and prove, from the definition, that

$$\frac{d}{dy}\int_a^y \phi(x)dx = \phi(y).$$

9. Find the value of

$$\int_0^1 \frac{1 - 2x^2}{1 + 2x^2}\sqrt{\frac{1 + x^2}{1 - x^2}}x dx.$$

10. The cardioid $r = a(1 + \cos\theta)$ revolves about the initial line; find the surface generated.

MATHEMATICS.

Examiner—PROFESSOR A. C. DIXON.

1. The four successive sides of a rhombus circumscribed to a circle meet any two tangents $PQRS$, $P'Q'R'S'$ in P, P', Q, Q'; R, R'; S, S', respectively. Show that PQ', $R'S$ are parallel.

2. Show how to invert four given spheres into equal spheres.

3. If a, b, c are three unequal positive quantities, show that

$$(b + c)^a (c + a)^b (a + b)^c < (2a)^a (2b)^b (2c)^c.$$

4. Find the sum of the r^{th} powers of the first n natural numbers, r being any positive integer.

5. Show that

$$\begin{vmatrix} 1, & bc + ad, & b^2c^2 + a^2d^2 \\ 1, & ca + bd, & c^2a^2 + b^2d^2 \\ 1, & ab + cd, & a^2b^2 + c^2d^2 \end{vmatrix} \text{ is a factor of } \begin{vmatrix} 1, & bc + ad, & b^3c^3 + a^3d^3 \\ 1, & ca + bd, & c^3a^3 + b^3d^3 \\ 1, & ab + cd, & a^3b^3 + c^3d^3 \end{vmatrix}$$

and find the other factor.

6. Describe any way of reducing the solution of a biquadratic equation to that of a cubic.

7. If $\sec(\alpha + \beta\sqrt{-1}) = A + B\sqrt{-1}$, A, B, α, β being real, find A, B in terms of α, β.

8. Show that the expansion of $\cos^3\theta$ in ascending powers of θ is

$$1 - \frac{3\theta^2}{2!} + \ldots + (-1)^n \frac{3}{4}(3^{2n-1}+1)\frac{\theta^{2n}}{2n!} \ldots$$

9. Prove that

$$\operatorname{cosec}\theta = \frac{1}{\theta} - \frac{1}{\theta-\pi} - \frac{1}{\theta+\pi} + \frac{1}{\theta-2\pi} + \frac{1}{\theta+2\pi} \ldots$$

and discuss the convergency of this series.

10. There are n points $A, B, C, \ldots$ on a sphere, centre O. The centre of mean position of the points is X, and OX produced meets the sphere in Y. P is an arbitrary point on the sphere. Show that $\cos AP + \cos BP + \ldots$ is greatest when P is at Y, and that

$$\cos AP + \cos BP + \ldots = (\cos AY + \cos BY + \ldots)\cos PY.$$

MATHEMATICAL PHYSICS.

Examiner—Professor Anderson.

1. Show that, if three forces are in equilibrium, they lie in a plane, and are either concurrent or parallel. Four forces are represented in magnitude and direction by two opposite sides AB, DC, and two diagonals CA, BD, of a quadrilateral $ABCD$. Show that they are equivalent to a couple whose moment is twice the difference of the areas of the triangles ABD and ACD.

2. State the laws of friction.

A circular hoop stands on an inclined plane, inclination α, its plane intersecting the incline in a line of greatest slope.

It is kept from slipping by a string attached to a point in its circumference, wrapped round it, and tied to a point higher up the plane. Show that, if the hoop subtends an angle θ at this point, and if the equilibrium is limiting, the coefficient of friction is

$$\frac{\sin\alpha}{\cos\alpha + \cos(\alpha - \theta)}.$$

3. In Attwood's machine the two masses are M and $M + m$. Find the change in the tension of the string

(*a*) when the mass m is suddenly taken off $M + m$;

(*b*) when a mass m is suddenly put on M.

4. A particle of mass m is tied to a fixed point by a string of length l. If it is projected with a horizontal velocity V from the fixed point, find when the string will become tight and the energy lost by the impulse.

5. Find the acceleration of a point describing a circle with uniform speed.

A heavy particle is attached to a fixed point by a string, and is projected horizontally from its position of equilibrium: find the condition that it may make a complete revolution.

6. A right circular cylinder with plane ends is completely immersed in a uniform fluid with its axis in a given direction: show that the resultant pressure on the curved surface is a single force passing through the centre of gravity of the cylinder and independent of its depth.

7. The depths of the angular points of a triangular lamina immersed in a homogeneous liquid are α, β, γ: find how much the depth of its centre of pressure exceeds that of its centre of gravity.

8. Determine the positions of the principal and focal points of a system of two thin convex lenses, whose focal lengths are f_1 and f_2, and distance apart a.

9. In using an astronomical telescope the eye is placed at the centre of the image of the object-glass formed by the

eye-piece; prove that the magnifying power is equal to the ratio of the radius of the object-glass to the radius of this image, and show that the brightness of the image observed cannot exceed that of the object.

10. Given the time of sunrise and the altitude of the Sun when due east on the same day, show how to find the latitude of the place.

EXPERIMENTAL PHYSICS.

Examiner—PROFESSOR ANDERSON.

1. Distinguish between the ordinary hydrostatic pressure at any point in a fluid and the internal molecular pressure. To what are they respectively due? Show that, in the case of water at 100° C. whose external pressure is one atmosphere, the internal pressure is upwards of 20,000 atmospheres.

2. Describe how high vacua containing air at a pressure of less than the ten-millionth part of an atmosphere are obtained. How is the pressure of the air measured? For what reasons is a gas in this highly rarefied condition regarded as a *fourth state* of matter?

3. Define absolute temperature, and explain why the range of any degree on an air-thermometer is nearly, but not quite, equal to that of the corresponding degree in the thermodynamic scale.

4. Define the critical temperature of a gas, and describe how a gas may be brought into the liquid state without perceptible discontinuity.

5. Explain Döppler's principle as applied to the propagation of sound. Show that if the source, medium, and observer are moving in the direction joining source and observer with velocities a, b, c, the vibration frequency and wave-length observed are, respectively,

$$N \cdot \frac{V+b-c}{V+b-a} \quad \text{and} \quad \lambda \cdot \frac{V+b-a}{V},$$

N and λ being the frequency and wave-length when a, b, and c are zero, and V the velocity of sound.

6. State the precautions necessary in obtaining a pure spectrum with a prism spectroscope. Explain the phenomenon of the reversal of lines in a spectrum, and investigate the necessary condition that reversal may take place.

7. Explain the action of a compound microscope. If the eye-piece and object-glass are fixed 8 inches apart, and their focal lengths are, respectively, 1 inch and $\frac{1}{2}$ inch, find where the object must be placed to be examined by an eye whose distance of most distinct vision is 10 inches.

8. Describe a method of measuring the permeability of soft iron for a given magnetizing force. How is the permeability of soft iron found to vary with magnetizing force?

9. A copper disc, radius a, is made to spin about its axis in a uniform magnetic field of strength H; show that an electromotive force may be obtained from it, and compute its greatest value, the angular velocity being ω. Would an iron disc give a greater or less E.M.F.?

10. Explain the repulsion experienced by a closed wire circuit when placed over the pole of a vertical electromagnet excited by an alternating current.

CHEMISTRY.

Examiner—PROFESSOR SENIER.

[*Candidates are only permitted to attempt* FOUR *questions. Formulæ, equations, and diagrams to be used whenever possible.*]

1. (*a*) What is meant by the 'periodic law,' and (*b*) how is it made use of to verify the relative weights of atoms? (*c*) Give illustrations.

2. What are the means adopted to increase the valency of the atoms of such elements as iron, mercury, and copper in ferrous, mercurous, and cuprous compounds?

3. Describe the chief metallic carbonyls, explain how they are obtained, and to what technical use the nickel compound has been applied.

4. Explain, briefly, (*a*) the chief stages in the production of 'alkali' and hydrochloric acid by Le Blanc's process; (*b*) the separation of chlorine from the hydrochloric acid, and the manufacture of 'bleaching powder'; (*c*) the constitution of the molecules of 'bleaching powder'; and (*d*) their mode of action in bleaching and disinfecting.

5. Commencing with clay iron stone, explain (*a*) the production of 'pig iron,' (*b*) the theory of the action of the blast furnace, and (*c*) the manufacture of Bessemer steel. (*d*) What is meant by the 'tempering' of steel? Explain its technical applications.

NATURAL HISTORY.

Examiner—Prof. Richard J. Anderson, M.A., M.D., F.L.S.

1. Describe the leg-bones of a Pigeon.

2. Describe the structure of the heart and lungs in a Rabbit.

3. What parts are to be seen in dissecting an Earthworm from the dorsal surface?

4. Where are starchy matters digested and how, in a Monkey, an Ox, and Bird?

5. Give a description and drawing of the structures seen in a longitudinal section of a dicotyledonous stem of one year's growth.

6. Give an account of the calyx and its modifications.

7. Define the Caryophylleæ and Malvaceæ.

8. Note the chief facts bearing on the production of heat and light in plants.

SENIOR SCHOLARSHIP—ANCIENT CLASSICS.

GREEK.

Examiner—PROFESSOR D'ARCY THOMPSON.

1. Translate into English :—

I.

βασιλεὺς δ' ἐπεὶ
πετραέσσας ἐλαύνων ἵκετ' ἐκ Πυθῶνος, ἅπαντας ἐν οἴκῳ
εἵρετο παῖδα, τὸν Εὐάδνα τέκοι· Φοίβου γὰρ αὐτὸν φᾶ γεγάκειν
πατρός, περὶ θνατῶν δ' ἔσεσθαι μάντιν ἐπιχθονίοις
ἔξοχον, οὐδέ ποτ' ἐκλείψειν γενεάν.
ὣς ἄρα μάνυε. τοὶ δ' οὔτ' ὢν ἀκοῦσαι
οὔτ' ἰδεῖν εὔχοντο πεμπταῖον γεγενημένον.
κέκρυπτο γὰρ σχοίνῳ βατείᾳ τ' ἐν ἀπειράτῳ,
ἴων ξανθαῖσι καὶ παμπορφύροις ἀκτῖσι βεβρεγμένος ἄβρὸν
σῶμα· τὸ καὶ κατεφάμιξεν καλεῖσθαί νιν χρόνῳ σύμπαντι μάτηρ
τοῦτ' ὄνυμ' ἀθάνατον. τερπνᾶς δ' ἐπεὶ χρυσοστεφάνοιο λάβεν
καρπὸν Ἥβας, Ἀλφεῷ μέσσῳ καταβὰς ἐκάλεσσε Ποσειδᾶν
εὐρυβίαν,
ὃν πρόγονον, καὶ τοξοφόρον Δάλου θεοδμάτας σκοπόν,
αἰτέων λαοτρόφον τιμάν τιν' ἑᾷ κεφαλᾷ,
νυκτὸς ὑπαίθριος. ἀντεφθέγξατο δ' ἀρτιεπὴς
πατρία ὅσσα, μετάλλασέν τε νιν· Ὄρσο, τέκνον,
δεῦρο πάγκοινον ἐς χώραν ἴμεν φάμας ὄπισθεν.

PINDAR, *Olympia*, VI. 47–64.

II.

Ζεῦ, Ζεῦ, θεωρὸς τῶνδε πραγμάτων γενοῦ·
ἰδοῦ δὲ γένναν εὔνιν ἀετοῦ πατρός,
θανόντος ἐν πλεκταῖσι καὶ σπειράμασι
δεινῆς ἐχίδνης. τοὺς δ' ἀπωρφανισμένους
νῆστις πιέζει λιμός· οὐ γὰρ ἐντελὴς
θήραν πατρῷαν προσφέρειν σκηνήμασιν.
οὕτω δὲ κἀμὲ τήνδε τ', Ἠλέκτραν λέγω,
ἰδεῖν πάρεστί σοι, πατροστερῆ γόνον,
ἄμφω φυγὴν ἔχοντε τὴν αὐτὴν δόμων.
καὶ τοῦ θυτῆρος καὶ σε τιμῶντος μέγα

πατρὸς νεοσσοὺς τούσδ' ἀποφθείρας, πόθεν
ἕξεις ὁμοίας χειρὸς εὔθοινον γέρας;
οὔτ' ἀετοῦ γένεθλ' ἀποφθείρας, πάλιν
πέμπειν ἔχοις ἂν σήματ' εὐπειθῆ βροτοῖς·
οὔτ' ἀρχικός σοι πᾶς ὅδ' αὐανθεὶς πυθμὴν
βωμοῖς ἀρήξει, βουθύτοις ἐν ἥμασι.

AESCHYLUS, *Choephorae*, 246–261.

III.

κἀγὼ μὲν τοιοῦτος ἀνὴρ ὢν ποιητής, οὐ κομῶ,
οὐδ' ὑμᾶς ζητῶ 'ξαπατᾶν, δὶς καὶ τρὶς ταὔτ εἰσάγων·
ἀλλ' ἀεὶ καινὰς ἰδέας εἰσφέρων σοφίζομαι,
οὐδεν ἀλλήλαισιν ὁμοίας, καὶ πάσας δεξιάς.
ὃς μέγιστον ὄντα Κλέων' ἔπαισ' εἰς τὴν γαστέρα,
κοὐκ ἐτόλμησ' οὔθις ἐπεμπηδῆσ' αὐτῷ κειμένῳ.
οὗτοι δ', ὡς ἅπαξ παρέδωκεν λαβὴν Ὑπέρβολος,
τοῦτον δείλαιον κολετρῶσ' ἀεὶ καὶ τὴν μητέρα.
Εὔπολις μὲν τὸν Μαρικᾶν πρώτιστον παρείλκυσεν,
ἐκστρέψας τοὺς ἡμετέρους Ἱππέας κακὸς κακῶς,
προσθεὶς αὐτῷ γραῦν μεθύσην, τοῦ κόρδακος οὔνεχ', ἣν
Φρύνιχος πάλαι πεποίηχ', ἣν τὸ κῆτος ἤσθιεν.
εἶθ' αὖθις Ἑρμιππος ἐποίησεν εἰς Ὑπέρβολον·
ἄλλοι τ' ἤδη πάντες ἐρείδουσιν εἰς Ὑπέρβολον,
τὰς εἰκοὺς τῶν ἐγχέλεων τὰς ἐμὰς μιμούμενοι.

ARISTOPHANES, *Clouds*, 545–559.

IV.

λεγω δὲ οὕτως ἂν θεωρεῖσθαι τὸ καθόλου· οἷον τῆς Ἰφιγενείας· τυθείσης τινὸς κόρης, καὶ ἀφανισθείσης ἀδήλως τοῖς θύσασιν, ἱδρυνθείσης δὲ εἰς ἄλλην χώραν, ἐν ᾗ νόμος ἦν τοὺς ξένους θύειν τῇ θεῷ, ταύτην ἔσχε τὴν ἱερωσύνην. Χρόνῳ δὲ ὕστερον τῷ ἀδελφῷ συνέβη ἐλθεῖν τῆς ἱερείας· διὰ τί; ὅτι ἀνείλεν ὁ θεὸς—διὰ τίνα αἰτίαν, ἔξω τοῦ καθόλου—ἐλθεῖν ἐκεῖ· καὶ ἐφ' ὅ, τι δὲ, ἔξω τοῦ μύθου. Ἐλθὼν δὲ καὶ ληφθεὶς, θύεσθαι μέλλων, ἀνεγνώρισεν· εἶθ' ὡς Εὐριπίδης, εἶθ' ὡς Πολύειδος ἐποίησε, κατὰ τὸ εἰκὸς εἰπὼν, ὅτι οὐκ ἄρα μόνον τὴν ἀδελφὴν, ἀλλὰ καὶ αὐτὸν ἔδει τυθῆναι· καὶ ἐντεῦθεν ἡ σωτηρία. Μετὰ δὲ ταῦτα ἤδη, ὑποθέντα τὰ ὀνόματα, ἐπεισοδιοῦν. Ὅπως δὲ ἔσται οἰκεῖα τὰ ἐπεισόδια, σκοπεῖν. Οἷον, ἐν τῷ Ὀρέστῃ ἡ μανία δι' ἣς ἐλήφθη,

καὶ ἡ σωτηρία διὰ τῆς καθάρσεως. Ἐν μὲν οὖν τοῖς δράμασι τὰ ἐπεισόδια σύντομα· ἡ δ' ἐποποιία τούτοις μηκύνεται. Τῆς γὰρ Ὀδυσσείας μικρὸς ὁ λόγος ἐστὶν· ἀποδημοῦντός τινος ἔτη πολλὰ καὶ παραφυλαττομένου ὑπὸ τοῦ Ποσειδῶνος, καὶ μόνου ὄντος, ἔτι δὲ τῶν οἴκοι οὕτως ἐχόντων, ὥστε τὰ χρήματα ὑπὸ τῶν μνηστήρων ἀναλίσκεσθαι, καὶ τὸν υἱὸν ἐπιβουλεύεσθαι, αὐτὸς ἀφικνεῖται χειμασθεὶς, καὶ ἀναγνωρίσας τινὰς, αὐτοῖς ἐπιθέμενος, αὐτὸς μὲν ἐσώθη, τοὺς δ' ἐχθροὺς διέφθειρε. Τὸ μὲν οὖν ἴδιον τοῦτο, τὰ δ' ἄλλα ἐπεισόδια.—ARISTOTLE, *De Arte Poetica*, XVII.

V.

Unprescribed Passage.

(Arrangements—political, social, and judicial—suggested by Hippodamus, son of Euryphon, of Miletus.)

κατεσκεύαζε δὲ τὴν πόλιν τῷ πλήθει μὲν μυρίανδρον, εἰς τρία δὲ μέρη διῃρημένην· ἐποίει γὰρ ἓν μὲν μέρος τεχνίτας, ἓν δὲ γεωργούς, τρίτον δὲ τὸ προπολεμοῦν καὶ τὰ ὅπλα ἔχον. διῄρει δ' εἰς τρία μέρη καὶ τὴν χώραν, τὴν μὲν ἱερὰν τὴν δὲ δημοσίαν τὴν δ' ἰδίαν· ὅθεν μὲν τὰ νομιζόμενα ποιήσουσι πρὸς τοὺς θεούς, ἱεράν, ἀφ' ὧν δ' οἱ προπολεμοῦντες βιώσονται, κοινήν, τὴν δὲ τῶν γεωργῶν ἰδίαν. ᾤετο δ' εἶδη καὶ τῶν νόμων εἶναι τρία μόνον· περὶ ὧν γὰρ αἱ δίκαι γίνονται, τρία ταῦτ' εἶναι τὸν ἀριθμόν, ὕβριν βλάβην θάνατον. ἐνομοθέτει δὲ καὶ δικαστήριον ἓν τὸ κύριον, εἰς ὃ πάσας ἀνάγεσθαι δεῖν τὰς μὴ καλῶς κεκρίσθαι δοκούσας δίκας· τοῦτο δὲ κατεσκεύαζεν ἐκ τινῶν γερόντων αἱρετῶν. τὰς δὲ κρίσεις ἐν τοῖς δικαστηρίοις οὐ διὰ ψηφοφορίας ᾤετο γίνεσθαι δεῖν, ἀλλὰ φέρειν ἕκαστον πινάκιον, ἐν ᾧ γράφειν, εἰ καταδικάζοι ἁπλῶς τὴν δίκην, εἰ δ' ἀπολύοι ἁπλῶς, κενὸν ἐᾶν, εἰ δὲ τὸ μὲν τὸ δὲ μή, τοῦτο διορίζειν. νῦν γὰρ οὐκ ᾤετο νενομοθετῆσθαι καλῶς· ἀναγκάζειν γὰρ ἐπιορκεῖν ἢ ταῦτα ἢ ταῦτα δικάζοντας. ἔτι δὲ νόμον ἐτίθει περὶ τῶν εὑρισκόντων τι τῇ πόλει συμφέρον, ὅπως τυγχάνωσι τιμῆς, καὶ τοῖς παισὶ τῶν ἐν τῷ πολέμῳ τελευτώντων ἐκ δημοσίου γίνεσθαι τὴν τροφήν, ὡς οὔπω τοῦτο παρ' ἄλλοις νενομοθετημένον· ἔστι δὲ καὶ ἐν Ἀθήναις οὗτος ὁ νόμος νῦν καὶ ἐν ἑτέραις τῶν πόλεων. τοὺς δ' ἄρχοντας ὑπὸ τοῦ δήμου αἱρετοὺς εἶναι πάντας· δῆμον δ' ἐποίει τὰ τρία μέρη τῆς πόλεως· τοὺς δ' αἱρεθέντας ἐπιμελεῖσθαι κοινῶν καὶ ξενικῶν καὶ ὀρφανικῶν.—ARISTOTLE, *Politics*.

GREEK.

Examiner—PROFESSOR D'ARCY THOMPSON.

HISTORY.

1. Give particulars as to the origin and functions of the 'Confederacy of Delos.'

2. Enumerate the several causes of the Rise and Development of the Athenian Empire.

3. Between what dates did the Athenian Empire exist? And at what particular date, in connexion with what event, would you fix its culminating point?

4. Enumerate the causes, external and internal, that tended to abbreviate the duration of that empire.

GRAMMAR.

(*a*) Give two instances of verbs that have presents but no aorists, and two instances of verbs that have aorists (or past tenses) but no presents.

(*b*) Give one instance apiece of a first person singular of present tense active of denominative verbs ending respectively in :—

οω : αω : εω : ευω : ιζω : αζω : αινω : υνω.

(*c*) Translate the following compounds so as to exhibit their respective *definitive* or *possessive* character :—

λογογράφος : χειροποίητος : and μακρόχειρ : ὁμότροπος.

(*d*) Accentuate the following compounds where the last part is active, denoting the agent :—

λιθοβολος : ὑδροφορος : λογοποιος : ψυχοπομπος.

(*e*) Give three instances of verbs beginning with a vowel that take the syllabic augment in either imperfect or aorist.

(*f*) 'The accent of the purely verbal parts of the inflection of a Greek verb follow the *resessive* accent; but the *infinitive* and *participle* present several exceptions.'

Illustrate by examples these exceptions.

(*g*) 'By the majority of philologists Ablaut is attributed to the influence of pitch accent.'

Define Ablaut, and illustrate the above statement, with two examples.

(*h*) In what class of verbs is the phenomenon of Ablaut found in greatest variety? Give three specimens.

(*i*) Give, without any explanatory comments, as many instances as you can of the various formations of the, so-called, *present*-tense systems.

(*j*) Give, in their Greek form, the eight parts of speech, as given by the Alexandrian Grammarians.

Composition.

Render into Greek:—

The separate advantage of an Oligarchy consists in the wisdom which may be expected from experience and education. A permanent council naturally possesses experience, and the members who succeed to their places in it by inheritance will probably be trained and educated with a view to the stations which they are destined by their birth to occupy.

The evils of an Oligarchy are dissensions in the ruling orders of the State, which, from the want of a common superior, are liable to proceed to the most desperate extremities; oppression of the lower orders by the privileges of the higher, and by laws partial to the separate interests of the law-makers.

LATIN.

First Paper.

Examiner—Professor Sandford.

1. Translate with notes:—

i. Quae dudum ad me . . . . .
. . . . . in maxima re fecerit.
Cicero, *ad Att.* xi. 24, 1–3.

ii. O gratas tuas mihi . . . . .
. . . . . adhibe prudentiam.
Id. *ib.* xii. 4.

iii. M. Silano L. Norbano consulibus . . .
. . . . . exercitus insedisset.
Tacitus, *Ann.* ii. 59.

iv. Adversus quae cum augur . . . . .
. . . . . ex adrogantia impedimentum.
Id. *ib.* iii. 59.

2. Translate into Latin:—

Pray tell me, what is the meaning of all this? What is happening? To me it is all as dark as night. 'We have lost Ancona, but still hold Cingulum. Labienus has deserted Caesar's standard.' Why, are we talking of a Roman General, or of a Hannibal? Oh! mad and pitiable man! who has never seen even in a faint reflection, '*splendorem pulcritudinemque virtutis.*' And yet he says he is doing all this 'for the sake of his honour.' Why, how can honour exist without honourable life? Is it 'honourable' then to retain your army without the lawful authority—to capture the towns of your fellow-countrymen, in order to clear the road to the city that gave you birth, to be plotting your '*table rasé de dettes*,' your '*rentrée des émigrés*,' and countless other nefarious watchwords for the sake of empire:—

Quo nihil maius meliusve terris
Fata donavere, bonique divi.

3. (*a*) What were the two conjugations of the Ind.-Eur. verb? The 'irregularities' of *sum*, *eo*, and *volo* are mainly due to one of these conjugations?

(*b*) Write a note on the form and use of *haud*.

(*c*) What law explains *ago—abigo* compared with ἄγω—ἀπάγω? *Neglego* illustrates a tendency which runs counter to this law?

(*d*) *bos* and *ovis* seem to violate Latin phonetic laws. Explain.

(*e*) *ancilla, forceps, rettuli* illustrate one effect of the paenultima law of accent?

(*f*) What is the law 'Breves breviantes'?

(*g*) Are *saeclum* and *deum* instances of syncope?

(*h*) There is ambiguity in the meaning of *utinam adesset*. Can it mean 'I wish that he might be present—at the next battle'?

(*i*) Form or quote an example of the 'virtual indirect construction.

(*j*) What limitations are observed in the use of the 'ablative absolute'? What in the use of the present participle?

LATIN.

Second Paper.

Examiner—Professor Sandford.

1. Translate with notes:—

i. Tun', vetule, auriculis alienis collegis escas?

. . . . . .

Linquere nec scombros metuentia carmina nec tus.

Persius, *Sat.* i, 22–42.

ii. Sed cenam funeris heres

. . . . . .

Clivumque ad Verbi, praesto est mihi Manius heres.

Persius, *Sat.* vi. 33–56.

iii. ausculto si quid dicas. *Ca.* si taceas loquar.

. . . . . .

Me. lupus observavit, dum dormitaret canes.

Plaut. *Trin.* 148–169.

iv. *Me.* I. gaudeo, edepol, si quid propter me tibi evenit boni :

. . . . . .

nunc spectatores valete et nobis clare applaudite.
PLAUT. *Men.* 1143–1162.

v. Tum porro quid id est, animum quod percutit ipsum,

. . . . . .

Mollia mortali consistere corpore creta.
LUCRETIUS, II. 886–906.

vi. In summo custos Tarpeiae Manlius arcis

. . . . . .

Fervere Leucaten, auroque effulgere fluctus.
VERG. *Aen.* viii. 652–677.

2. (*a*) How does Persius mention the three great Greek comedians? How does he contrast Horace and Lucilius?

(*b*) Quote the line in which Persius describes the punishment he would have inflicted on tyrants.

(*c*) Explain : condicem foras ; quid modi futurumst illum quaerere ; numero ; Campans genus multo Surorum iam antidit patientiam ; bubuli cottabi ; condalium ; cena huc annonast sine sacris hereditas.

(*d*) Comment on : et quodcunque magis vis multas possidet in se atque potestates, ita plurima principiorum in sese genera ac varias docet esse figuras.

(*e*) What is the difference between *quicquid* and *quidquid*?

(*f*) What qualities have atoms, according to Lucretius? Have they colour?

(*g*) Translate : subitamque avertere curam : pavit aequor harenam : frumentum non tamen omne quique suo genere inter se simile esse videbis.

3. (*a*) Who composed the *iudices* under Augustus? Give a history of the changes in this body?

(*b*) Write a note on the title *Princeps*.

(*c*) 'Augustus thus united his grandnephew with his granddaughter as he had before united his nephew with his daughter.' Explain this statement, and detail the various plans formed by the Emperor to provide a successor

(*d*) Who were the *Augustales*, and why and by whom appointed?

(*e*) What do you know of the *Apocolocyntosis*?

(*f*) Two fragments of a speech of Claudius delivered in 48 A.D. have been recovered. What was the subject?

(*g*) What was the financial crisis of 33 A.D.

(*h*) What do you know of Blaesus, uncle of Sejanus?

(*i*) Tiberius used an expression like '*après moi le déluge*'? What did he substitute for the popularity that protected his predecessor?

(*j*) What was the purport of the Jewish embassy in 40 A.D.?

(*k*) Who was the 'true conqueror of Britain'?

(*l*) After the quinquennium Neronis, who gained the ascendancy over the Emperor?

(*m*) 'Nero at length desired to destroy Virtue herself by the death of . . . and . . .'? Fill up the blanks.

SENIOR SCHOLARSHIP—MODERN LANGUAGES AND MODERN HISTORY.

ENGLISH.

FIRST PAPER.

Examiner—THE PRESIDENT.

1. (*a*) Write a note on the metre of the Prologue to the Canterbury Tales.
   (*b*) Discuss the comparative value of the MSS. of Chaucer.
2. Explain the following lines:—
   (*a*) He kepte his pacient a full greet del
   In houres, by his magik naturel.
   Wel coude he fortunen the ascendent
   Of his images for his pacient.
   (*b*) He yaf nat of that text a pulled hen.

(*c*) He was a Janglere and a goliardeys.

(*d*) In Gernade at the sege eek hadde he be
Of Algezir, and riden in Belmarye.
At Lyeys was he, and at Satalye,
Whan they were wonne: and in the Grete See
At many a noble aryve hadde he be.

3. (*a*) Describe, in Chaucer's language, the Somnour.

(*b*) Explain the following:—

Reyse, gipoun, wastel-breed, pricasour, grys, tipet, pituance, yeddinges, courtepy, parvys, purchasour, knarre, poudre, sheeldes.

4. (*a*) What, according to Burke, is the vice most abhorred by the House of Commons?

(*b*) Give the substance of Burke's apostrophe to Lord Bathurst.

(*c*) What is the 'Eternal Law of extensive and detached Empire'?

(*d*) Give the substance of Burke's reference to Ireland and Wales.

5. (*a*) Give instances, from Burke, of *argumenta ad hominem, contentio.*

(*b*) What was the 'preambulary tax'?

(*c*) What does Burke mean by 'drawbacks'?

(*d*) What is the 'canonical book of ministerial Scripture'?

(*e*) Explain 'to mump.'

(*f*) Give the substance of Burke's eulogy of Mr. Grenville.

(*g*) Quote an instance from Burke of what is called 'dictionary eloquence.'

(*h*) Give the substance of Burke's references to Lord Chatham and Charles Townshend.

6. (*a*) What, according to Coleridge, are the essentials of Poetry?

(*b*) Give the substance of Coleridge's remarks upon 'the Unities.'

(*c*) What is the effect of rhymed lines in Shakespeare, according to Coleridge?

(*d*) Give the substance of Coleridge's character of Richard II. and Mercutio?

(*e*) What, according to Coleridge, is the inference to be drawn from the rhythm of the following line:—

Bru. 'A soothsayer bids you beware the Ides of March'?

(*f*) Give instances of Shakespeare's 'valiancy of style' in *Antony and Cleopatra*?

7. (*a*) Tennyson once said that 'Wordsworth often shows a want of literary instinct.'
Illustrate this criticism.

(*b*) Give the context of the following:—

'That best portion of a good man's life
His little nameless unremembered acts
Of kindness and of love.'

'Whose dwelling is the light of setting suns.'

'The child is father of the man.'

(*c*) Quote as much as you remember of the poems in which the following lines occur:—

'I wandered lonely as a cloud.'

'Thy soul was like a star and dwelt apart.'

(*d*) Give the substance of the passage introduced by—

'England, with all thy faults, I love thee still.'

ENGLISH.

Second Paper.

Examiner—The President.

1. Explain the following:—

(*a*) Philip! Sparrow: James,
There 's toys abroad: anon I 'll tell thee more.

(*b*) Knight, knight, good mother, Basiliscolike.

(*c*) To cull the plots of best advantage.

(*d*) His sin his injury,
His injury the beadle of his sin,
All punish'd in the person of this child,
And all for her.

(*e*) But thou hast sworn against religion,
By what thou swear'st against the thing thou swear'st,
And makest an oath the surety for thy truth
Against an oath : the truth thou art unsure
To swear, swears only to be forsworn.

(*f*) Clapp'd on the outward eye of fickle France.

(*g*) Untrimmed bride.

(*h*) My lady's a Cataian, we are politicians,
Malvolio 's a Peg-a-Ramsey, and ' Three merry men be we.' Am I not consanguineous? am I not of her blood? Tillyvally.

(*i*) Sowter will cry upon 't for all this, though it be as rank as a fox.

2. (*a*) Refer to passages in Shakespeare containing illustrations drawn from the language of sport.

(*b*) What line in ' King John ' was suggested by Lucan's famous *amat pro conjuge luctum* ?

(*c*) Explain—
I had as lief be a Brownist as a politician.

3. (*a*) What, according to Arnold, is Byron's ' great merit ' ?

(*b*) Give, and comment on, Goethe's criticism of Byron.

(*c*) Give the context of—
' Give all thou hast : high Heaven rejects the lore
Of nicely calculated less or more.'
' The light that never was on land or sea.'

4. (*a*) What does Bacon call *tanquam tabula naufragii*? Give the substance of his remarks on this head.

(*b*) Summarize Bacon's remarks on *Poesy Parabolical.*

(*c*) Explain Plato's dictum—' Forms are the true object of knowledge.'

5. (*a*) Discuss the position of ' mathematique ' in the hierarchy of knowledge.

(*b*) Write notes on Theophrastus Paracelsus, Telesius, Fracastorius, Gilbertus.

(*c*) Explain *acatalepsia*.

6. Summarize Bacon's remarks on—

(*a*) *Elenches*.

(*b*) The various Phantoms.

(*c*) Emblems.

7. Assign to their contexts the following—

(*a*) The only amaranthine flower on earth.

(*b*) That reeling goddess with the zoneless waist.

(*c*) The little wick of life's poor shallow lamp.

(*d*) The cups
That cheer but not inebriate.

(*e*) Patriots bursting with heroic rage.

(*f*) He sucks intelligence in every clime.

8. (*a*) Who is styled by Cowper a 'warbler of poetic prose'?

(*b*) Summarize Cowper's lines on a greenhouse.

MODERN HISTORY.

Examiner—The President.

1. Write an account of the Seven Years' War, and the causes that led to it.

2. Write a short account of the lives of the following:—ir Robert Walpole, Turenne, Turgot, Alberoni, Dubois.

3. Write an account of the events that led to the fall of the Girondins.

4. Write an Essay on the foreign policy of Henry IV. of France.

5. Trace the events that led to the battle of Rocroy.

6. Discuss the foreign policy of Richelieu and Mazarin.

7. Write an Essay on the fortunes of the Tory Party during the 18th century.

FRENCH.

Examiner—PROFESSOR STEINBERGER.

THÈME.

1. Traduisez en français :—

We have hitherto only adverted to the sufferings of those who are engaged in the profession of arms, without taking into our account the situation of the countries which are the scene of hostilities. How dreadful to hold everything at the mercy of an enemy, and to receive life itself as a boon dependent on the sword. How boundless the fears which such a situation must inspire, where the issues of life and death are determined by no known laws, principles, or customs, and no conception can be formed of our destiny except as far as it is dimly deciphered in characters of blood, in the dictates of revenge, and the caprices of power. Conceive, but for a moment, the consternation which the approach of an invading army would impress on the peaceful villages in this neighbourhood. When you have placed yourself for an instant in that situation, you will learn to sympathise with those unhappy countries which have sustained the ravages of arms. But how is it possible to give you an idea of these horrors? Here you behold rich harvests, the bounty of Heaven and the reward of industry, consumed in a moment, or trampled under foot, while famine and pestilence follow the steps of desolation. There the cottages of peasants given up to the flames, mothers expiring through fear, not for themselves but for their infants; the inhabitants flying with their helpless babes in all directions, miserable fugitives on their native soil.

LA LANGUE FRANÇAISE.

2. De quelles langues la langue française actuelle est-elle formée? Indiquer exactement la date, la cause historique et l'importance numérique relative de chaque couche nouvelle.

3. Expliquer l'anomalie de l'étymologie de l'article défini, et en donner la déclinaison en vieux français.

4. Comment faut-il expliquer la disparition des futurs latins tels que cantabo, veniam ?

5. Comment la langue d'oïl exprimait-elle la dépendance entre deux substantifs ? Citez des exemples. Y a-t-il des traces de l'ancienne formation dans le français moderne ?

LITTÉRATURE FRANÇAISE.

6. Indiquer l'influence des salons sur la littérature du XVIII[e] siècle.

7. Nommez et caractérisez les principaux écrivains français qui se sont inspirés de Shakespeare au 18[e] siècle.

8. Quel est, selon Taine, le rôle de la plaisanterie dans la littérature du XVIII[e] siècle ?

9. Épreuve orale.

GERMAN.

Examiner—PROFESSOR STEINBERGER, M.A.

COMPOSITION.

1. Translate into German :—

Under the title of this paper, I do not think it foreign to my design to speak of a man born in her majesty's dominions, and relate an adventure in his life so uncommon, that it is doubtful whether the like has happened to any other of the human race. The person I speak of is Alexander Selkirk, whose name is familiar to men of curiosity, from the fame of his having lived four years and four months alone in the island of Juan Fernandez. I had the pleasure, frequently, to converse with the man soon after his arrival in England, in the year 1711. It was a matter of great curiosity to hear him, as he is a man of good sense, give an account of the different revolutions in his own mind in that long solitude. When we consider how painful absence from company, for the space of but one evening, is to the generality of mankind, we may have a sense how

painful this necessary and constant solitude was to a man bred a sailor, and ever accustomed to enjoy, and suffer, eat, drink, and sleep, and perform all offices of life in fellowship and company. He was put ashore from a leaky vessel, with the captain of which he had an irreconcilable difference; and he chose rather to take his fate in this place, than in a crazy vessel, under a disagreeable commander. His portion was a sea-chest, his wearing-clothes and bedding, a pound of gunpowder, a large quantity of bullets, a few pounds of tobacco, a hatchet, a knife, a Bible, and other books of devotion.

History of Language.

2. Point out, by rule and example, the difference in regard to the use of the several dentals (*d*, *t*, *dh*, *th*), and sibilants (*s*, *ss*, *z*), existing between Low-German and High-German.

3. Give instances of Rhotacism, or of the earlier existence of the sibilant *s*, in the place of the letter *r*, now found in the modern German, or of changes in the opposite direction.

4. What important changes in the manner of spelling German words were introduced by the clerks of the imperial *Kanzlei* in the sixteenth century?

5. What letters are found in H. G. for the Aryan as well as the L. G. *b*, *p*, *ph*, and *f*? Give examples.

German Literature.

6. Estimate, according to the 'Briefwechsel,' the influence of Goethe and Schiller upon each other.

7. Give a sketch of the state of German literature in the seventeenth century.

8. What is the fundamental idea underlying Goethe's 'Faust'? Quote some lines of this work to support your view.

9. Oral examination.

SENIOR SCHOLARSHIP—MATHEMATICS.

Examiner—PROFESSOR A. C. DIXON.

1. If $y = \sin x$, prove the equivalence of the operators

$$x\frac{d}{dx} - 2\frac{x^2}{2!}\frac{d^2}{dx^2} + 4\frac{x^3}{3!}\frac{d^3}{dx^3} \ldots + (-2)^{n-1}\frac{x^n}{n!}\frac{d^n}{dx^n} \ldots$$

and

$$y\frac{d}{dy} - 2\frac{y^2}{2!}\frac{d^2}{dy^2} + 4\frac{y^3}{3!}\frac{d^3}{dy^3} \ldots + (-2)^{n-1}\frac{y^n}{n!}\frac{d^n}{dy^n} \ldots$$

2. Trace the curve

$$(x^2 - y^2)^2 + 2axy^2 - 5ax^3 = 0.$$

3. A conic U is inscribed in a triangle which is self-conjugate with respect to another conic V. Prove that the polar with respect to U of any point on V will cut the two conics in four points forming a harmonic range.

4. Two tangents to a cycloid cut at a constant angle. Prove that the sum of their lengths is in a constant ratio to the arc intercepted between their points of contact.

5. Prove that if r is a positive integer

$$\int_0^\infty\int_0^\infty\int_0^\infty\int_0^\infty \frac{dx\,dy\,dz\,du}{(a^2 + x^2 + y^2 + z^2 + u^2)^{r+\frac{5}{2}}} = \frac{\pi^2}{4(2r+1)(2r+3)a^{2r+1}}.$$

6. OA, OB, OC are conjugate semidiameters of a conicoid. The tangent plane at D is perpendicular to OC and meets OAB in a line through which is drawn a plane, cutting the

surface in a conic U. Prove that the axes of the cone whose base is U and vertex D are the normals at D to the conicoid and the two confocals through D.

7. Find the polar reciprocal of the surface

$$\frac{x^2}{a^2 + k} + \frac{y^2}{b^2 + k} + \frac{z^2}{k} = 1,$$

with respect to the sphere

$$(x - a\cos\alpha)^2 + (y - b\sin\alpha)^2 + z^2 = c^2.$$

Show that it is a surface of revolution.

8. One solution of the equation

$$\frac{d^2y}{dx^2} + (2\tan x - \cot x)\frac{dy}{dx} + 2y\tan^2 x = 0$$

is $y = \cos x$. Solve the equation completely.

9. Solve the equation

$$x^4\frac{d^2y}{dx^2} - 3\frac{dy}{dx} - 6x^2y = 0$$

in descending series.

10. A quartic equation for x is solved by putting

$$y = a + bx + cx^2 \text{ and choosing } a, b, c$$

so that the equation for y wants its second and fourth terms.

Find the ratios $a : b : c$ in terms of the roots.

11. Show that if a skew determinant of even degree vanishes, so do all its first minors.

SENIOR SCHOLARSHIP—NATURAL PHILOSOPHY.

MATHEMATICAL PHYSICS.

Examiner—PROFESSOR ANDERSON.

1. Investigate the conditions that a system of forces may have a single resultant, and find the equations of its line of action.

Forces $a \,.\, DA$, $b \,.\, DB$, $c \,.\, DC$, $e \,.\, BC$, $f \,.\, CA$, $g \,.\, AB$ act along the edges DA, DB, DC, BC, CA, AB of a tetrahedron $ABCD$; show that, if they have a single resultant, $ae + bf + cg = 0$.

2. Show that the attraction of an infinitely long cylindrical bar on an external point is $2m/p$ where m is the mass per unit length, and p the distance from the axis; and find the attraction for an internal point.

3. A particle is constrained by smooth reactions to move in a straight line under the action of an attraction $\mu\,\phi(r)$ to a point outside the line. Find the time of a small oscillation. Examine the case when the point is on the line.

4. A heavy particle is projected from a point inside a smooth paraboloid: find the velocity of projection that it may describe a horizontal circle; and if the motion be slightly disturbed, find the time of a small oscillation.

5. A body rotates about a fixed horizontal axis: find the time of a small oscillation. A uniform solid cylinder of radius a rolls inside a fixed rough hollow cylinder of radius b, show that the length of a simple equivalent pendulum is $\frac{3}{2}(b - a)$.

6. A mass of fluid rotates like a rigid body about a vertical axis: find the form of the free surface. A hemispherical cup, containing liquid, rotates about its axis: find where a hole must be made that all the liquid may run out.

7. An ellipsoid floats in a liquid of double its density. Find the work done in turning it through a small angle θ round one of the principal axes of the plane of flotation.

8. Explain the formation of focal lines when a small pencil is refracted at a plane surface. Determine the positions of the primary and secondary foci when a small pencil is obliquely incident on one face of a prism and is refracted through a prism in a principal plane.

9. A luminous point moves along the diameter of a reflecting circle of radius a; prove that the two cusps of the caustic which are not on that diameter move on the curve $r = a \cos \frac{\theta}{2}$.

10. Prove that, when the part E of the equation of time which arises from the obliquity ω is a maximum,

$$\sin E = \tan^2 \frac{\omega}{2}.$$

EXPERIMENTAL PHYSICS.

Examiner—PROFESSOR ANDERSON.

1. Show that, for a gas, $\frac{K}{H} = \frac{3}{2} \cdot \frac{C - c}{c}$, where K is the molecular energy of translation, H the total molecular energy, and C, c the specific heats at constant pressure and constant volume.

2. Give an account of the methods of explaining theoretically the phenomena of capillary action. How far is the hypothesis of a surface film in accordance with molecular theories?

3. Gas is forced through a porous plug. Find the relation between the rise of temperature and the absolute temperature.

4. Show that sunlight, falling on a black surface, exerts mechanical pressure on it; and state how the amount of this pressure is computed. Does this explain the action of the radiometer, and, if not, what is the explanation?

5. Describe Newton's rings, seen by reflected light; and find the relation between the thickness of the air-film, the angle of incidence, and the radii of the rings.

6. Light falls on a pile of parallel glass plates: give a sketch of the method of computing the amount of polarized compared with the amount of unpolarized light in the reflected and transmitted beams.

7. Describe and explain the appearances observed when a thin plate of selenite is placed between two Nicols and illuminated by parallel white light.

8. Explain what is meant by self-induction, and give a method of measuring it. Show that, if energy is lost in the reversal of the magnetisation of the iron cone of an electromagnet, the coefficient of self-induction during changes of the current is a variable quantity.

9. Explain the theory of electric images, and apply it to the case of a conducting sphere at zero potential in presence of an electric point-charge at a given distance from it. Find the force on the sphere.

10. Describe experiments to find the rate of propagation of electrodynamic waves through air.

SENIOR SCHOLARSHIP—METAPHYSICAL AND ECONOMIC SCIENCE.

METAPHYSICS.

Examiner—THE PRESIDENT.

1. Give some account of Spinoza's Method, and exhibit his relation to Descartes.

What may be called the 'Achilles's heel' of Spinoza's philosophy?

2. State and distinguish Descartes's proofs of the existence of God.

How far are they original?

How did he endeavour to explain the interaction of soul and body?

3. How does Locke argue against the doctrine of Innate Ideas?

What is really to be understood by the term 'Innate Ideas'?

Give Descartes's and Leibnitz's views on this subject.

4. Give the substance of Leibnitz's *Monadology*.

Give some account of the principles underlying Leibnitz's philosophy.

State how far his system is an advance on Descartes's.

5. What is the position of *Judgment* in Kant's philosophy?

Analyse Kant's *Kritik of Judgment*.

6. Give the various steps in the development of Consciousness, according to Höffding.

7. Discuss the origin of the ideas of 'space' and 'time,' and of 'reality.'

ECONOMIC SCIENCE.

Examiner—PROFESSOR BASTABLE.

1. Distinguish between 'producers' wealth' and 'consumers' wealth.' Can the same commodity belong to both classes?

Consider whether an increase in the proportion of producers' wealth is necessarily advantageous.

2. Discuss the various ways in which credit influences prices. How far is the quantity theory of money modified by the action of credit?

3. Consider fully the causes and consequences of a fall in the rate of interest.

Notice particularly the influences acting on the price of Consols.

4. Examine the incidence, immediate and ultimate, of a tax on houses proportional to letting value, (*a*) when levied on the occupier, (*b*) when levied on the owner.

5. Illustrate and account for the prominent place assigned to procedure in early legal systems.

6. Compare the opinions of Austin and Maine on the subject of 'legal fictions.'
Notice the employment of 'fictions' in the modern English Constitution.

7. Give Holland's classification of the 'rights to personal safety and freedom,' adding illustrations. Is it correct to describe such rights as 'natural'?

8. Estimate the effect of any special form of family organization on the law of the country on which it prevails.

SENIOR SCHOLARSHIP—NATURAL HISTORY.

Examiner—Prof. Richard J. Anderson, M.A., M.D., F.L.S.

1. Give an account of the spinal column, so as to show chiefly the differential characters in the Vertebrate classes.

2. How do limbs first appear in the animal embryo? Trace the homology of limb parts throughout the Vertebrate group?

3. How are flowers adapted for cross-fertilization?

4. Write an account of irritability in plants.

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5. Dissect the animal placed before you.

6. Name the specimens on the table.

BLAYNEY EXHIBITION—CLASSICS.

GREEK.

Examiner—Professor D'Arcy W. Thompson.

Composition.

Translate into Greek:—

I.

It is impossible to defend Nicias in his dispute with Cleon about the expedition to Pylus. Nevertheless, the conduct of Nicias was in accordance with his principles, and a large party in the assembly undoubtedly believed him to be in the right. In the first place he was exasperated that an opportunity of ending the war on favourable terms had just been lost through Cleon's fault. For the Lacedemonians had sent envoys to Athens to propose peace; but owing to the extravagant demands made to them on Cleon's proposal, they had returned to Pylus without success.

II.

It is impossible to deny that monarchies have, generally speaking, been warlike, and given to conquest. Whoever is entrusted with much power is apt to desire more; he who is strong at home is naturally wishful to show his influence abroad. Kings whose dominions are large are prone to regard the maintenance of a military force as the chief good incident to their lot; and as they have always the pretext of maintaining their own power at home, or what they call preserving the peace of society, so they easily put themselves in a condition to extend their power among their neighbours, or, as they term it, to make their nation respected abroad.

GRAMMAR AND PHILOLOGY.

Examiner—Professor D'Arcy W. Thompson.

1. Distinguish, in meaning, the active and middle of the following pairs:—

μισθοῦν, μισθοῦσθαι: ἀμύνειν (τινί), ἀμύνεσθαι: στέλλειν, στέλλεσθαι: δανείζειν, δανείζεσθαι: ἐπιψηφίζειν, ἐπιψηφίζεσθαι: δικάζειν, δικάζεσθαι.

2. Write down the 1st person singular of the imperfect tense active in each of the following:—

εἰσάγω, συγχέω, προβαίνω, ὑποπτεύω, καθεύδω, ἐνοχλέω, δυσαρεστέω, δυστυχέω, εὐεργετέω, οἰκοδομέω.

3. Point out what there is peculiar and noteworthy in each of the following sentences, translating only where translation is necessary for elucidation:—

(*a*) μέχρι τοῦδε ὠρίσθω ὑμῶν ἡ βραδύτης.
(*b*) καὶ διαλεγόμενος αὐτῷ, ἔδοξέ μοι εἶναι σοφὸς ὁ ἀνήρ.
(*c*) ἐσθῆτα φορεοῦσι Σκυθικήν, γλῶσσαν δὲ ἰδίαν.
(*d*) οὐ μὴ δείσῃς τὸν πολέμιον.
(*e*) οὐ μὴ λαλήσεις.
(*f*) οὐκ ἔστιν οὐδὲν κρεῖσσον ἢ φίλης σαφής.
(*g*) οὐκ ἀρνοῦμαι ὡς οὐκ ἀπέδωκα.
(*h*) ἥμαρτεν, ὡς μήποτ' ὤφελεν.
(*i*) τὴν οὐσίαν ἣν κατέλιπεν οὐ πλείονος ἀξία ἐστίν.
(*j*) ἔστιν οὓς τινας ἀνθρώπων τεθαύμακα ἐπὶ σοφίᾳ.
(*k*) οὐ δουλευτέον τοὺς νοῦν ἔχοντας τοῖς κακῶς φρονοῦσιν.
(*l*) φθάνουσιν ἐπὶ τῷ ἄκρῳ γενόμενοι τοὺς πολεμίους.

4. Give gen. sing. and dat. pl., with accents, of—θυγάτηρ, αἰών, θρίξ, πούς.

5. Give compar. and superl. of—μέσος, χαρίεις, ἐπίχαρις, πίων, προὔργου, κλέπτης.

6. Discuss, philologically, the following words:—

τερπικέραυνος, ἔπᾳθον, ἕπτα, παχύς, ποικίλος, Λεύκιππος, ἅπαξ, ἄλοχος, ἀδελφος, ἄπεδος, ἀνδρός, ἄμβροτος, ἀμέλγω, ἐθέλω, φαίνω, δέσποινα, μάκαιρα, γένους, φυλάσσω, τάσσω.

LATIN.

Examiner—PROFESSOR SANDFORD.

1. Translate :—

I.

Nox eadem laetam Germanico quietem tulit, viditque se operatum et sanguine sacri respersa praetexta pulchriorem aliam manibus aviae Augustae accepisse. Auctus omine, addicentibus auspiciis, vocat contionem et quae sapientia provisa aptaque inminenti pugnae disserit. Non campos modo militi Romano ad proelium bonos, sed si ratio adsit, silvas et saltus; nec enim inmensa barbarorum scuta, enormis hastas inter truncos arborum et enata humo virgulta perinde haberi quam pila et gladios et haerentia corpori tegmina. Denserent ictus, ora mucronibus quaererent: non loricam Germano, non galeam, ne scuta quidem ferro nervove firmata, sed viminum textus vel tenuis et fucatas colore tabulas; primam utcumque aciem hastatam, ceteris praeusta aut brevia tela. Iam corpus ut visu torvum et ad brevem impetum validum, sic nulla vulnerum patientia: sine pudore flagitii, sine cura ducum abire, fugere, pavidos adversis, inter secunda non divini, non humani iuris memores. Si taedio viarum ac maris finem cupiant, hac acie parari: propiorem iam Albim quam Rhenum neque bellum ultra, modo se, patris patruique vestigia prementem, isdem in terris victorem sisterent.—TACITUS, *Annals*, ii. 14.

II.

[A slave Stasimus tries to dissuade Philto from accepting the farm which his master Lesbonicus offers as his sister's dowry.]

St. Hospitiumst calamitatis: quid verbis opust?
Quamvis malam rem quaeras, illic reperias.
Ph. At tu hercle et illi et alibi. *St.* Cave sis dixeris
Me tibi dixisse hoc. *Ph.* Dixti tu arcano satis.
St. Quin hic quidem cupit illum ab se abalienarier,
Siquem reperire possit, os quoi sublinat.

Ph. Meus quidem hercle numquam fiet. *St.* Si sapies quidem.
Lepide hercle de agro ego hunc senem deterrui:
Nam qui vivamus nihil est, si illum amiserit.
Ph. Redeo ad te, Lesbonice. *Le.* Dic sodes mihi,
Quid hic est locutus tecum? *Ph.* Quid censes? homost:
Volt fieri liber, verum quod det non habet.
Le. Et ego esse locuples, verum nequiquam volo.
St. Licitumst, si velles: nunc, quom nihil est, non licet.
Le. Quid tecum, Stasime? *St.* De istoc quod dixti modo:
Si ante voluisses, esses: nunc sero cupis.
Ph. De dote mecum conveniri nil potis:
Quod tibi lubet, tute agito cum gnato meo.
Nunc tuam sororem filio posco meo:
Quae res bene vortat. Quid nunc? etiam consulis?
Le. Quid istic? quando ita vis, di bene vortant: spondeo.
PLAUTUS, *Trinummus*, 553–573.

2. Translate, with notes:—

I.

Nec defuere qui in deterius referrent. Et Nero infensus iis, quibus superbia muliebris innitebatur, demovet Pallantem cura rerum, quis a Claudio impositus velut arbitrium regni agebat; ferebaturque degrediente eo magna prosequentium multitudine non absurde dixisse, ire Pallantem ut eiuraret. Sane pepigerat Pallas ne cuius facti in praeteritum interrogaretur paresque rationes cum re publica haberet. Praeceps posthac Agrippina ruere ad terrorem et minas, neque principis auribus abstinere quo minus testaretur, adultum iam esse Britannicum, veram dignamque stirpem susci piendo patris imperio, quod insitus et adoptivus per iniurias matris exerceret. Non abnuere se quin cuncta infelicis domus mala patefierent, suae in primis nuptiae, suum veneficium: id solum dis et sibi provisum quod viveret privignus. Ituram cum illo in castra; audiretur hinc Germanici filia, inde debilis rursus Burrus et exul Seneca, trunca scilicet manu et professoria lingua generis humani regimen expostulantes. Simul intendere manus, adgerere probra, consecratum Claudium, infernos Silanorum manes invocare et tot inrita facinora.—TACITUS, *Annals*, xiii. 14.

II.

Mors Burri infregit Senecae potentiam, quia nec bonis artibus idem virium erat altero velut duce amoto, et Nero ad deteriores inclinabat. Hi variis criminationibus Senecam adoriuntur, tamquam ingentes et privatum modum evectas opes adhuc augeret, quodque studia civium in se verteret, hortorum quoque amoenitate et villarum magnificentia quasi principem supergrederetur. Obiciebant etiam eloquentiae laudem uni sibi adsciscere et carmina crebrius factitare, postquam Neroni amor eorum venisset. Nam oblectamentis principis palam iniquum detrectare vim eius equos regentis, inludere voces, quotiens caneret. Quem ad finem nihil in re publica clarum fore quod non ab illo reperiri credatur? Certe finitam Neronis pueritiam et robur iuventae adesse: exueret magistrum, satis amplis doctoribus instructus maioribus suis.—*Ibid.*, xiv. 52.

III.

La. Minacias ego flocci non facio tuas:
Equidem eas te invito iam ambas rapiam. *Dae.* Tangedum.
La. Tangam hercle vero. *Dae.* Tanges, at scin quo modo?
Idum Turbalio curriculo, adfer huc domo
Duas clavas. *La.* Clavas? *Dae.* Set probas: propera cito.
Ego te hodie faxo recte acceptum, ut dignus es.
La. Eheu, scelestus galeam in navi perdidi:
Nunc mi opportuna hic esset, salva si foret.
Licet saltem istas mi appellare? *Dae.* Non licet.
Ehem,
Eccum optume edepol huc clavator advenit.
La. Illut quidem edepol tinnimentumst auribus.
Dae. Age, accipe illanc alteram clavam, Sparax.
Age, alter istinc, alter hinc adsistite.
Adsistite ambo. Sic. Audite nunc iam:
Si hercle illic illas hodie digito tetigerit
Invitas, ni istunc istis invitassitis
Usque adeo, donec qua domum abeat nesciat,
Peristis ambo. Si appellabit quempiam,
Vos respondetote istinc istarum vicem.
Sin ipse abitere hinc volet, quantum potis,
Extemplo amplectitote crura fustibus.

PLAUTUS, *Rudens*, 795–816.

IV.

Ch. Ego multo tanto miserior quam tu, Labrax.
La. Qui? *Ch.* Quia ego indignus sum, tu dignu's qui sies
La. O scirpe, scirpe, laudo fortunas tuas,
Qui semper servas gloriam aritudinis.
Ch. Equidem me ad velitationem exerceo:
Nam omnia corrusca prae tremore fabulor.
La. Edepol, Neptune, es balineator frigidus:
Cum vestimentis postquam a ted abii, algeo.
Ne thermopolium quidem ullum ille instruit:
Ita salsam praehibet potionem et frigidam.
Ch. Ut fortunati sunt fabri ferrarii,
Qui aput carbones adsident: semper calent.
La. Utinam fortunam nunc ego anatinam uterer,
Uti, quom exivissem ex aqua, arerem tamen.
Ch. Quid, si aliquo ad ludos me pro manduco locem?
La. Quapropter? *Ch.* Quia pol clare crepito dentibus.
Set optumo me iure elavisse arbitror.
La. Qui? *Ch.* Quine auderem tecum in navem ascendere,
Qui a fundamento mi usque movisti mare?

Ibid., 521–539.

3. (*a*) How does Scepurnio describe the storm?

(*b*) What were the *crepundia* in the Rudens?

(*c*) Explain the expressions:—propter viam illi sunt vocati: de illarum vesperi: hisce hami atque haec harundines sunt nobis quaestu et cultu (scan the line): hariolus sum: scibis faxo: cur tu aquam gravare amabo: praeficine: quid mihi scelesto tibi erat auscultatio: arrabo: follis pugilatorius: venalis illic ductitavit: offerumenta: controversia est: cum pulvisculo: in ius rapiam exules dica: imitabor Stratonicum: sequester: caudea: sucula: porci sacres: licentia: censionem facere: factio: os calet tibi, nunc id frigefactas.

(*d*) What is the Latin for:—don't imagine it: make no mistake about it: for amusement: I 'm hanged if I don't go hang myself: a witch: that 's not like me?

(*e*) Scan the following, noting any difficulty:—

Elleborosus sum. *Gr.* At ego cerritus; hunc non amittam tamen.

(*f*) Translate and scan :—

Neptuno has ago gratias meo patrono,
Qui salsis locis incolit pisculentis,
Quom med ex suis pulcre ornatum expedivit
Templis redducem, plurima praeda onustum
Salute horiae, quae in mari fluctuoso
Piscatu novo me uberi compotivit.

4. (*a*) Manu mittendi duas species. Explain fully.

(*b*) ille supremus Claudiorum sanguis. Who is thus characterised, and what was his fate?

(*c*) What authorities does Tacitus mention in reference to Seneca's fate?

(*d*) What do we learn of the history of Britain from these two books?

(*e*) Explain :—Cincia lex : vectigal quintae et vicensimae venalium mancipiorum remissum : sui cuiusque ordinis milites : Codicilli : mare rubrum : quae in alios consules egressa coniunxi : inquisitionem annuam impetraverant.

(*f*) What was the 'pulcherrimum donum generi mortalium'? What is the Latin for 'indirect taxes'?

LATIN.

Examiner—Professor Sandford.

1. Translate into Latin Prose :—

After the battle the outcry against him became furious. He was accused, perhaps unjustly, of having said with unfeeling levity, while the English regiments were contending desperately against great odds, that he was curious to see how the bulldogs would come off. Would anybody, it was asked, now pretend that it was on account of his superior skill and experience that he had been put over the heads of so many English officers? It was the fashion to say that those officers had never seen war on a large scale. But surely the merest novice was competent to do all that Solmes had done, to misunderstand orders, to send cavalry

on duty which none but infantry could perform, and to look on at a safe distance while brave men were cut to pieces. It was too much to be at once insulted and sacrificed, excluded from the honours of war, yet pushed on all its extreme dangers, sneered at as raw recruits, and then left to cope unsupported with the finest body of veterans in the world. Such were the complaints of the English army: and they were echoed by the English nation.—MACAULAY.

2. 'The Latin stress-accent left traces of itself in three processes which have materially altered the appearance of the language.' Explain, giving examples, these three processes.

3. The forms *fac* and *fer* arise in different ways. Give other examples of each formation. Where alone is seen the genuine imperative of *dare*?

4. What archaic uses of the following words appear in Vergil:—*enim, atque, ilicet, his, haec*?

5. Translate and explain:—Neve aurum addito, at cui auro dentes iuncti escunt, ast im cum illo sepeliet uretue, se fraude esto.

6. Write etymological notes on:—*quasillus, latus, fumus, quin, sempiternus, malo, inquam, topper, perperam, tenus, totus, dens, ingens.*

7. Whence did the Latins derive their alphabet? What use did they make of the symbols for the Greek aspirates? Give an account of G and H. Mention some attempts to enlarge the alphabet.

8. Give an account of the formation of the gen. sing. of the First Declension.

9. What traces of a middle voice are found in Latin?

10. Two explanations of the fut. part. in *-turus* are given?

11. The saying of Cato, *contumelia mihi factum itur*, is used to support a theory of the origin of the passive voice? Why cannot the *-r*, the characteristic of this voice, be connected with the reflexive pronoun *swe-*?

LAW SCHOLARSHIP—FIRST YEAR.

REAL PROPERTY.

Examiner—PROFESSOR CAMPION.

1. To what extent has statutory provision altered the original requirements essential to the validity of 'a Contingent Remainder'?

2. In a devise 'to A, and if A die without issue to B,' what estate is taken since the 1 Vict. c. 26?
What was the legal construction of such a devise previously to that statute?

3. An estate is devised 'to A for life, remainder to the heirs of his body.' State what estate does A take, and on what legal principle.

4. State the three leading statutory changes in the law of 'Descent.'

5. Define the term 'Purchaser' as enacted by the statute on Descent. How is Descent traced when there is a total failure of the heirs of the purchaser? Give an example.

6. Explain the tenure of 'Coparcenors,' and state how does that tenure arise.

7. In the creation of an estate in Fee-simple, state the distinction between a 'will' and a 'deed.' Are the words of limitation 'Heirs' now essential in the latter case?

8. Define 'Lapse' as altered by the Statute of Wills, and state the exceptions introduced by the latter statute.

9. As regards the mode of disentailing 'an estate tail,' and acquiring thereby an absolute estate, how does 'a quasi-estate tail' differ from a pure estate tail?

10. Define a 'Base Fee,' and state the limit of its duration.

11. Upon what legal ground does the rule against 'perpetuity' not apply to an estate limited to take effect after an estate tail?

12. The right of alienation being inherent in ownership, state an exception to the rule prohibiting a restriction on alienation.

JURISPRUDENCE.

Examiner—PROFESSOR BASTABLE.

1. Define the following terms:—person, status, *jus in rem*, act in the law, *universitas juris*.

2. What are the chief advantages and disadvantages of the system of judiciary, or judge-made, law?

3. Compare Roman with English equity, noting carefully the chief points of resemblance and difference in the two systems.

4. What different views have been held respecting custom as a source of law?

5. What was the origin of the distinction between 'public' and 'private' law? Examine Austin's views on this subject.

6. Distinguish, giving illustrations, between 'intention,' 'negligence,' 'heedlessness,' and 'rashness.'

7. How does positive law differ from (*a*) the divine law, (*b*) the law of nature?
Point out some of the contributions of natural law to the development of the system of actual law.

8. Notice the chief forms of the 'social contract' theory, and point out the fundamental error which is common to all of them.

9. Bring out clearly the various conceptions that are attached to the term 'law,' and trace the connexion between them.

10. Discuss the statement, that 'jurisprudence is a *formal*, not a *material*, science.'

MEDICAL SCHOLARSHIP—SECOND YEAR.

ANATOMY.

Examiner—PROFESSOR PYE.

1. Describe the line of articulation made by the first and second row of carpal bones with one another.

2. Describe the anatomy and action of the following muscles:—

(*a*) Flexor sublimis digitorum;

(*b*) Soleus.

3. Describe the joint between the last lumbar vertebra and the sacrum.

4. Describe the malar and parietal bones.

5, 6, 7. Practical work in Dissecting-room.

CHEMISTRY.

Examiner—PROFESSOR SENIER.

[*Candidates are only permitted to attempt* FIVE *questions. Formulæ, equations, and diagrams to be used whenever possible.*]

1. What weight of nitrous oxide can be obtained from 100 grams of ammonium nitrate, and what volume would it occupy at 760 mm. and 0°? One litre hydrogen weighs 0·0899 gram at the above-mentioned temperature and pressure.

2. Describe the reaction which takes place between superheated steam and stearin or other fat; and explain how the number of hydroxyl groups in the molecules of the alcohol formed is ascertained.

3. What reactions would you select for the preparation of monochloroacetic acid, monochlorobenzene, benzoyl chloride, and acetyl chloride? Give particulars in each case.

4. How would you proceed to prepare pure chloroform, commencing with ethyl alcohol? Explain the reactions, and also the reaction which occurs when chloroform is heated with a mixture of potassium hydroxide and concentrated solution of ammonium hydroxide.

5. What is the action of heat on the ammonium salts of nitrous, nitric, hydrochloric, and acetic acids, respectively?

6. How would you prepare and collect hydrogen, and what means would you adopt to prove that it is lighter than air, and that it is incapable of supporting the flame of a burning taper?

7. Hydrochloric acid contains, as shown by experiment, 35·37 parts by weight of chlorine to 1 part of hydrogen. Its density (hydrogen = 1) is 18. What, then, is the relative weight of the molecule of hydrochloric acid, and, no molecule being known containing a less proportion of chlorine, what is the relative weight of the atom of chlorine?

ZOOLOGY.

Examiner—Prof. Richard J. Anderson.

1. Give an account of the cranium of a Dog.

2. Describe the urogenital systems in a Rabbit.

3. Describe the structure of the heart and great vessels in the various Piscine orders.

4. Write an account of the tarsus and carpus. Illustrate from the different groups.

5. Write an account of the ribs and sternum in those groups that have such.

6. Give a description of a simple Ascidian in the larval and mature conditions.

7. Name the parts of the walking-leg of a Crayfish.

8. What changes take place in the blood of an animal during respiration? What nerves regulate respiratory movements in Vertebrates?

BOTANY.

Examiner—Prof. Richard J. Anderson.

1. Give a short account of the life-history of a Moss.

2. Give a description of each variety of Gynæcium.

3. What are the so-called generating tissues of the root? How may these tissues be grouped?

4. Note the chief tissues seen under the microscope in the cortex of a Dicotyledon of one year's growth?

5. Write an account of protoplasmic action in plants and the agents that influence the movement.

6. Give the life-history of a plant cell from the beginning up to the time that a wall forms and the protoplasm disappears.

7. Give an account of the Boragineæ.

8. Define the Gramineæ.

The following Papers were also set for this Examination:—
Natural Philosophy, see p. 301.
French or German, see pp. 394–396.

MEDICAL SCHOLARSHIP—THIRD YEAR.

PHYSIOLOGY.

Examiner—Professor Pye.

1. Describe the process by which urea is separated from the blood.

2. Contrast blood lymph and chyle as to histology and chemical composition.

3. Describe the working of the valves of the heart, including an account of their anatomy as far as requisite.

4. What are the gases of the blood? Give percentage-estimates, and explain how they are identified and estimated.

5, 6. 7. Practical work in Laboratory.

ANATOMY.

Examiner—PROFESSOR PYE.

1. Describe the corpora quadrigemina of the brain.

2. Compare the ankle- and knee-joints as to their action, especially in relation to the maintenance of the erect posture.

3. Describe the anatomy of the sigmoid flexure of the colon.

4. The relations of the vena cava superior.

5. Mention the sources of the blood-supply of the liver, and describe the vascular arrangements within that organ.

6, 7, 8. Practical work in Dissecting-room.

MATERIA MEDICA.

Examiner—PROFESSOR COLAHAN.

1. For what purposes and in what forms may substances be administered by the rectum? Enumerate the drugs frequently administered in this way.

2. Enumerate, shortly, the untoward effects that may follow the administration of medicinal doses of the following:—arsenic, quinine, conium, silver, belladona, nux-vomica, mercury.

3. What rules would guide you in employing mercury in the treatment of syphilitic cases?

4. For what reasons is ammonia prescribed in lung diseases? What preparations would you use? and state their doses.

5. Enumerate the roots mentioned in the pharmacopœia, and name the active principle and therapeutic value of each.

CHEMISTRY.

Examiner—PROFESSOR SENIER.

[*Give the results at which you arrive, together with full experimental proof.*]

1. A solution of a simple chemical compound in water. Identify it. (Nitric acid.)

2. A white powder. Search for one basic and one acidic radical. (Borax.)

3. A yellow powder. Search for one basic and one acidic radical. (Cadmium sulphide.)

MEDICAL SCHOLARSHIP—FOURTH YEAR.

PHYSIOLOGY.

Examiner—PROFESSOR PYE.

1. What is known of the function of the corpus striatum and optic thalamus, respectively? Give the evidence in support of your opinion.

2. The nerve-regulation of the iris.

3. The effects of a constant electric current on muscle and nerve.

4. Describe some method of estimating (quantitatively) grape sugar in an animal fluid.

5. The action of thyro-arytænoid muscle.

6, 7, 8. Practical work in Laboratory.

MATERIA MEDICA.

Examiner—PROFESSOR COLAHAN.

1. Enumerate the drugs which alter the composition and volume of the urine, and discuss their modes of action.

2. How do you prepare codeine? Give an account of its physiological action and therapeutical uses.

3. What antipyretics are usually employed in the treatment of fevers? Describe their mode of action. In what doses would you prescribe them? and what evil effects may follow their use?

4. What drugs, taken internally, influence the calibre of the systemic blood-vessels? Describe their mode of action.

5. Write directions for the appropriate treatment—medicinal and otherwise—

(*a*) For a case of acute bronchitis;

(*b*) For a patient suffering from gastric ulcer, with hæmatemesis;

(*c*) For a patient suffering from mitral disease, with cardiac irregularity—dropsy and lung engorgement.

MEDICINE.

Examiner—PROFESSOR LYNHAM, M.D.

1. Describe the symptoms of gastric ulcer, and give the treatment.

2. State the causes, symptoms, and treatment of chronic interstitial nephritis.

3. Write a full account of the eruption in (*a*) measles, and (*b*) scarlatina.

4. Describe a case of dysentery.

5. What are the anatomical characters of the kidney in acute Bright's disease?

SURGERY.

Examiner—PROFESSOR BRERETON.

1. What are the relations of bacteria to acute suppuration?

2. What are the injuries described about the ankle-joint?

3. Describe Nelaton's line and Bryant's triangle, and their use in diagnosis.

4. What is the ambulatory treatment of fractures? and how is it carried out?

5. What are the theories to account for fractures of the base of the skull when the violence is directed to the vault?

SENIOR SCHOLARSHIP IN ANATOMY AND PHYSIOLOGY.

ANATOMY AND PHYSIOLOGY.

Examiner—PROFESSOR PYE.

[The Examination consisted chiefly of practical work in the Laboratory and Dissecting-room.]

ENGINEERING SCHOLARSHIP—SECOND YEAR.

CHEMISTRY.

Examiner—PROFESSOR SENIER.

[*Candidates are only permitted to attempt* FIVE *questions. Formulæ, equations, and diagrams are to be used whenever possible.*]

1. (*a*) What means would you employ to obtain the chlorine from 100 grams of sodium chloride, and (*b*) what would the gas weigh? [Na = 23, Cl = 35·37.]

2. A candle disappears on burning. How would you show experimentally that, notwithstanding this fact, no loss of matter occurs?

3. Describe and explain (*a*) Roebuck's method for the manufacture of sulphuric acid; and the action of hot concentrated sulphuric acid on (*b*) zinc, (*c*) sulphur, (*d*) carbon.

4. (*a*) Describe one method for the production of ozone, and (*b*) give Soret's proof of its constitution.

5. What reactions occur when the following substances are subjected to the action of heat—(*a*) calcium carbonate; (*b*) lead nitrate; (*c*) potassium chlorate; (*d*) mercuric oxide?

6. Water is proved by experiment to contain 8 parts, by weight, of oxygen to one part of hydrogen. The gaseous density of water is 9 (hydrogen = 1). What is the relative weight of the molecule of water? and, no molecule being known containing a less proportion of oxygen, what is the relative weight of the atom of oxygen?

7. (*a*) What is meant by the terms 'hard' and 'soft' as applied to natural waters? (*b*) How are 'degrees' of hardness measured? (*c*) By what means may the hardness of water be removed, and (*d*) what are its advantages and disadvantages?

Examiner—PROFESSOR TOWNSEND.

1. Given the projections of two lines, develop the angle between them, and construct the projections of a line bisecting the angle.

2. Given the projections of a point and of a line, construct the projections of a perpendicular from the point on the line, and find the length of the perpendicular.

3. In a triangle a, b, c, $ab = 3$ inches, $bc = 2\frac{1}{2}$ inches, $ca = 5$ inches; construct by means of points, without the aid of the centre, the portion a, b, c, of the circle circumscribing the triangle.

4. In the accompanying drawing, a, b, c, d is the base of a right vertical prism lying in the horizontal plane, its height being $\frac{3}{4}$ of an inch, and the height of the eye 1 inch; construct direct from these data a perspective of the prism twice the size of the ordinary perspective, the position of the eye being given.

5. A line 'lying' in the horizontal plane makes an angle of 45° to the left with the ground line, and intersects it at a point directly opposite to the horizontal projection of the eye, two points b and c are taken on this line at a distance of 1 and 2 inches respectively from the point a, bc is the side of a regular hexagon lying in a vertical plane, and the hexagon is the base of a regular prism 4 inches long; construct the perspective of the hexagon, the height of the eye being 3 inches, and its distance from the picture plane 4 inches.

6. Construct the isometric drawing of the prism in last question, the isometrical projections of bc, the length of the prism, and of a line perpendicular to each of them being parallel to the isometric axes: the natural scale to be used instead of the isometric.

7. Make a sketch of a tower of the Decorated Period, and of an Early English doorway.

8. Make a sketch of a Grecian Doric Order, and write on the names of the different members.

9. Given the projections of a sphere and of a line, if through the line two tangent planes be drawn to the sphere; construct the horizontal projections of the points of contact.

10. A triangle lying in the horizontal plane is the direction of an oblique prism, the direction of the generatives being given. Show how to find the projections of the points in which a given line will meet the prism?

The following Papers were also set for this Examination :—

Mathematics, see pp. 298–300.

French or German, see pp. 294–296.

Experimental Physics, see pp. 301–302.

ENGINEERING SCHOLARSHIP—THIRD YEAR.

MATHEMATICS.

Examiner—Professor A. C. Dixon.

1. Show that

$$1^n - n \cdot 2^n + \frac{n(n-1)}{2!} 3^n - \ldots + (-1)^n (n+1)^n = (-1)^n n!$$

2. If γ, δ are distinct angles such that

$$\sin(\beta+\gamma) + \sin(\gamma+\alpha) + \sin(\alpha+\beta) = 0$$

and

$$\sin(\beta+\delta) + \sin(\delta+\alpha) + \sin(\alpha+\beta) = 0,$$

prove that, unless α, β have special values,

$$\sin(\gamma + \delta) + \sin(\delta + \alpha) + \sin(\alpha + \gamma) = 0,$$

and that $\alpha + \beta + \gamma + \delta$ is an odd multiple of π.

3. Describe a sphere to pass through three given points and touch a given straight line.

4. CP, CD are conjugate semidiameters of an ellipse whose foci are S, H. Prove that PS, PH are parallel respectively to the tangents from D to the minor auxiliary circle.

5. Given the centre and three points of a conic, show how to tell whether it is an ellipse or a hyperbola.

6. Solve a spherical triangle in which

$$a = 62° 11', \quad b = 141° 17', \quad A = 47° 28'.$$

7. If $y = \sec^{-1}x$, prove that

$$(x^3 - x)\frac{d^{n+2}y}{dx^{n+2}} + \{(3n+2)x^2 - (n+1)\}\frac{d^{n+1}y}{dx^{n+1}} + n(3n+1)x\frac{d^ny}{dx^n} + n^2(n-1)\frac{d^{n-1}y}{dx^{n-1}} = 0.$$

8. Find the evolute of the locus of the point for which

$$x = a(1 + 2\cos\theta + \cos 2\theta),$$

$$y = a(2\sin\theta + \sin 2\theta),$$

θ being the variable.

9. Find

$$\int_{\frac{\pi}{4}}^{\frac{3\pi}{4}} \frac{dx}{\sin x}, \quad \int \frac{dx}{(x-1)^2(x-2)}, \quad \int \sec^5 x\,dx.$$

10. Prove, by integration, that the volume of a paraboloid of revolution cut off by a plane perpendicular to the axis is half that of a cylinder on the same base and having the same height.

MATHEMATICAL PHYSICS.

Examiner—PROFESSOR ANDERSON.

1. Show that two forces $m \cdot OA$ and $n \cdot OB$ have as resultant $(m + n)\ OC$, where C is a point on AB such that $m\ AC = n\ CB$.

A triangular lamina is suspended by two strings OA, OD fastened to a point O, their other ends being attached to the vertex A and the middle point of the base D: find the tensions of the strings.

2. Find the position of the centre of gravity of one-half of an ellipse cut off by any diameter.

3. Define angular velocity and relative angular velocity. The diameters of the front and back wheels of a bicycle are a and b, and the distance between their centres c: find the instantaneous angular velocity of the line joining their nearest points when the velocity of the bicycle is v.

4. A simple pendulum is suspended from the roof of a railway carriage, the train moving uniformly at a rate of 40 miles an hour. When the brakes are put on, the pendulum oscillates through an angle of 5°: find approximately how far the train will go before it comes to rest, the resistance being assumed constant.

5. Exemplify the principle of the conservation of energy by the case of a moving projectile.

Find the horse-power of an engine which pumps water from a depth of 50 feet, and delivers it at the rate of 1000 gallons per minute through a horizontal cylindrical pipe whose cross-section is one square foot.

6. Show that, in a homogeneous liquid at rest, the rate of increase of pressure per unit length in any direction is proportional to the resolved part of the force in that direction.

7. Show that the centre of pressure of a regular polygon of n sides completely immersed in a homogeneous liquid

and in a vertical plane is vertically below the centre and at a distance

$$r^2 (2 + \cos 2\pi/n)/12h,$$

where h is the depth of the centre and r the radius of the circumscribing circle.

8. Given the positions of the principal points and principal foci of an optical instrument symmetrical about an axis. Show how to construct the image of a small object on the axis; and find its magnification.

9. Find the condition of achromatism of an eye-piece formed of two thin lenses of focal lengths f_1 and f_2 separated by an interval a.

10. Prove that, in consequence of the aberration of light, every star appears to describe an ellipse in the heavens, of which its true place is the centre.

CHEMISTRY.

Examiner—Professor Senier.

[*Give the results at which you arrive, together with full experimental proofs.*]

1. A solution in water of a simple chemical compound. Identify the compound. (Nitric acid.)

2. A white powder. Search for one basic and one acidic radical. (Calcium borate.)

3. A yellow powder. Search for one basic and one acidic radical. (Cadmium sulphide.)

Examiner—Professor Townsend.

1. Read the vernier, and describe the adjustments of the instrument set before you.

2. In a railway cutting the base is 80 feet, ratio of slopes $1\frac{1}{2}$ to 1, and length $3\frac{3}{4}$ chains. Bidder's tabular

numbers, corresponding to two given depths, are: red = 45·2, black = 83·8. Calculate the number of cubic yards in the cutting, and the area of the slopes in square yards.

3. The radius of a railway curve is 42 chains, and the angle between the extreme tangents is 138° 20′. Calculate the length of the tangent and the distance from the intersection of the tangents to the middle point of the curve, in chains.

4. Describe, by means of a diagram, the mode of adjusting the bubble tube in a Dumpy level.

5. The radius of a railway curve is 30 chains, and the angle between the extreme tangents 120°; an error of two minutes has been made in measuring this angle. Calculate the corresponding error in the length of the tangent.

6. The acreage of a field, measured with a chain 1·98 inches too long, is 88 A. 2 R. 28 P. Calculate the true acreage.

7. Calculate the discharge, in cubic feet per minute, from a trapezoidal channel whose base is 10 feet, depth 4 feet, ratio of slopes 2 to 1, and the fall per mile 6 inches, using 66 as the coefficient, on the value of C, in Chezy's formula.

8. Calculate the time that a cylindrical vessel, 30 feet high and 20 feet in diameter, will take to empty itself through an orifice in the bottom, 9 inches in diameter, the coefficient of discharge being ·61.

9. Sketch a cross-section of a framed floor with a wrought-iron girder, showing the bridging joists, the ceiling joists, and the mode of fastening the binding joists to the girders.

10. Make a vertical section of a staircase, showing how the treads and risers are supported by the carriage, and how they are fastened to the strings.

SENIOR SCHOLARSHIP IN ENGINEERING.

First Part.

Examiner—Professor Townsend.

1. In the accompanying diagram of a roof truss with a span of 40 feet, the total wind pressure on the left side, acting uniformly and perpendicular to the rafter, is 3·2 tons; the left side is fixed, and the right free to move horizontally: find the magnitude and direction of the pressures on the points of support, and the stresses in the different members, using a scale of 1 ton to the inch for pressures, and 8 feet to the inch for the diagram.

2. Calculate, in inch-tons, the twisting moment which a steel tube 12 inches in diameter and $\frac{1}{8}$th of an inch thick can bear, the shearing stress being 4 tons per square inch.

If the length of the tube be 6 feet, calculate the angle of torsion, the coefficient of torsional elasticity being 4687 tons.

3. Calculate, in feet, the head required by a rusted iron pipe, 18 inches in diameter, to discharge 780 gallons per minute, the length being 6 miles.

4. Calculate the working load in tons, by Gordon's formula, of a hollow round cast-iron pillar 14 feet high, the external diameter being 8 inches, the thickness of the metal 1 inch, the factor of safety 6, and both ends firmly fixed.

5. Prove the equation which gives the weight of a wrought-iron girder in terms of the external load, the length of the girder, and the depth of the girder.

6. In the accompanying girder, 60 feet long, the bracing consists of 6 equilateral triangles; the uniform load is $\frac{3}{4}$ of a ton per running foot; and the rolling load is $1\frac{1}{2}$ tons per foot-run: calculate the maximum stress in the middle bay of the lower flange, and in the fifth diagonal from either abutment, resulting from these loads.

7. In a masonry dam, as designed by Turner and Brightmore, the width of the top is b, and the specific gravity of the masonry is g: show how to calculate the depth to which the inner or water side may be carried down vertically so that the line of resistance may lie with the middle third of the horizontal line, the reservoir being empty.

8. Describe, by a sketch, the automatic stop-valve used at the Thirlmere, or Manchester, Water Works, to prevent damage from the discharge of water due to the accidental fracture of a main.

9. Sketch a figured vertical section of a filter-bed for water. Describe the different materials used; and state the number of gallons per square yard that should be filtered in 24 hours.

10. Describe the tests for Portland cement of a high quality.

SECOND PART.

Drawings executed in Engineering School in the Third Year.

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(Founded, 1889.)

This Society meets in the Physiological Laboratory on Friday evenings at 7.30 p.m.

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